

Day 1: 22 August 2022 (Monday)
Faculty of Engineering, B. Uludağ University, Türkiye

Hours	Lecturers	Title
08.00-09.00		Registration
09.00-09.15	Dr. A.S. Kılavuz (Rector)	Welcoming Talks
09.15-10.00	Dr. I. Dincer	Energy and Exergy Dimensions
10.00-10.45	Dr. M. Özilgen	Introduction to Bio & Medical Thermodynamics
10.45-11.00		Break (Q & A)
11.00-11.45	Dr. Y.A. Cengel	Thermodynamic Concepts
11.45-12.30	Dr. Y.A. Cengel	Introduction to the 2 nd Law and Exergy
12.30-13.30		Lunch Break
13.30-14.15	Dr. A. Hepbasli	Exergetic Efficiencies and Indicators for Energy Systems
14.15-15.00	Dr. A. Midilli	Chemical Exergy Calculations: Examples
15.00-15.15		Break (Q & A)
15.15-16.00	Dr. I. Dincer	Energy and Exergy Analyses and Efficiency Assessments of Systems: A Problem Session-1
16.00-16.45	Dr. I. Dincer	Energy and Exergy Analyses and Efficiency Assessments of Systems: A Problem Session-2
16.45-17.00		Break (Q & A)
PANEL 1 17.00-18.30 Moderator: Dr. A. Midilli	Dr. I. Dincer Dr. Y. A. Cengel Dr. A. Hepbasli Dr. M. Özilgen	KONU: Research Directions in Energy and Exergy YER: Faculty of Engineering

Day 2: 23 August 2022 (Tuesday)
Bursa Chamber of Commerce and Industry, Türkiye

Hours	Lecturers	Title
09.00-09.40	Dr. Y.A. Cengel	Exergy of the cold (with LNG example)
09.40-10.20	Dr. Y.A. Cengel	Entropy and Information
10.20-10.30		Break (Q & A)
PANEL 2 10.30-12.15 Moderator: Dr. A. Midilli	Dr. I. Dincer Dr. Y. Cengel Dr. A.B. Etemoğlu Dr. A. Hepbasli İ. Burkay (BTSO Başkanı)	KONU: Sanayide Yeni Enerji Açılımları YER: Bursa Ticaret ve Sanayi Odası
12.15-13.15		Lunch Break
13.15-14.00	Dr. I. Dincer	Integrated Solutions with Exergy
14.00-14.45	Dr. A. Hepbaşlı	Exergy-based Analyses and Assessments of Buildings
14.45-15.30	Dr. M. Özilgen	Exergy Analysis of Biological Structures
15.30-15.45		Break (Q & A)
15.45-16.30	Dr. A. Midilli	Exergy Analysis of Gasification Systems
16.30-17.15	Dr. A. Midilli	Exergy and Sustainability Assessments of Hydrogen Energy Systems
17.15-18.00	Dr. A. Hepbasli	Energy and Exergy Management System Standards

Day 3: 24 August 2022 (Wednesday)
Faculty of Engineering, B. Uludağ University, Türkiye

Hours	Lecturers	Title
09.00-09.40	Dr. A. B. Etemoğlu	Energy and Exergy Analysis of Organic Rankine Cycles
09.40-10.20	Dr. T. H. Karakoç	Exergy analysis of UAV propulsion systems
10.20-11.00		EXERGY COURSE EXAM
11.00-11.15		Break (Q & A)
11.15-11.45	Dr. Z. Söğüt	Entropy Management and Application
11.45-12.15	Dr. Mustafa Özilgen	Exergy Analysis in Food and Pharmaceutical Industries
12.15-12.45	Dr. I. Dincer	Novel Energy Topics and Exergy Analysis, and Future Directions
12.45-13.15		Certificates and Awards Ceremony and Closing Remarks
13.15		Closure

PRINCIPAL LECTURERS

Prof. Dr. Ibrahim Dincer	Ontario Tech University, Canada & Yıldız Technical University, Türkiye
Prof. Dr. Yunus A. Cengel	University of Nevada at Reno, USA
Prof. Dr. Arif Hepbasli	Yaşar University, Türkiye
Prof. Dr. Adnan Midilli	Yıldız Technical University, Türkiye
Prof. Dr. Mustafa Özilgen	Yeditepe University, Türkiye

CONTRIBUTORS	
Prof. Dr. Akın B. Etemođlu	Bursa Uludađ University, Túrkiye
Prof. Dr. T. Hikmet Karakoç	Eskişehir Technical University, Túrkiye
Prof. Dr. Ziya Söđüt	Piri Reis University, Túrkiye

Location: Bursa Uludađ University – Automotive Engineering Department, Bursa, Túrkiye (www.uludag.edu.tr)
Notes: Although the course language is Turkish, course notes and presentation documents will be available in English.
Honorary Chair: A. Saim Kılavuz (Rector of Bursa Uludag University, Túrkiye)
Coordinator: Akın B. Etemođlu (Dean of Engineering Faculty, Túrkiye)
Organizing Committee: Recep Yamankaradeniz and M. Ziya Söđüt (Organizing Chairs), Nurettin Yamankaradeniz, Burak Túrkan, Mücahit T. Uysal
Contact Information: Mücahit T. Uysal - ekserji@uludag.edu.tr - 0 224 294 07 45 - 0 224 294 19 07 (for registration forms submission)
Info on Course Details: Please visit www.uludag.edu.tr/ekserji