

ME 571 NT MANUFACTURING METHODS

2026-2027 FALL SEMESTER

LECTURER : Assist. Prof. Dr. Hakan Çandar

COURSE OUTLINE

WEEK	DATE	S. TIME	TOPICS
1	24.09.2026	19:30	Content, General Information
2	01.10.2026	19:30	Introduction to NT Manufacturing Processes
3	08.10.2026	19:30	Laser Processing (LP)
4	15.10.2026	19:30	Plasma Arc Cutting (PAC)
5	22.10.2026	19:30	Abrasive Waterjet Machining (AWJ)
6	29.10.2026	19:30	Electrical Discharge Machining (EDM)
7	05.11.2026	19:30	Electrochemical Machining (ECM)
8	12.11.2026	19:30	MIDTERM
9	19.11.2026	19:30	Abrasive Flow Machining (AFM)
10	26.11.2026	19:30	Ultrasonic Machining (USM)
11	03.12.2026	19:30	Electron Beam Machining (EBM)
12	10.12.2026	19:30	Thermal Energy Method (TEM)
13	17.12.2026	19:30	Presentations
14	24.12.2026	19:30	Presentations
15	21.05.2026	10:00	Presentations

EXAM

Midterm 1: Includes the subjects held on at the first 7 weeks. (%30)

Midterm 2: Presentation* (Max. 30 min.) (%20)

Final Exam: (%50)

*Presentations include an explanation of 5 articles published in last 6 years (2020-2026) on the relevant subject.

Reference Book: Nontraditional Manufacturing Processes [Gary F. Benedict]