

ME 571 NT MANUFACTURING PROCESSES

2024-2025 FALL SEMESTER

LECTURER : Assist. Prof. Dr. Hakan Çandar

COURSE OUTLINE

WEEK	DATE	TIME	TOPICS
1	04.10.2024	10:00	Content, General Information
2	11.10.2024	10:00	Introduction to NT Manufacturing Processes
3	17.10.2024	13:30	Abrasive Waterjet Machining (AWJ)
4	24.10.2024	13:30	Laser Processing (LP)
5	31.11.2024	13:30	Plasma Arc Cutting (PAC)
6	07.11.2024	13:30	Electrical Discharge Machining (EDM)
7	14.11.2024	13:30	Electrochemical Machining (ECM)
8	21.11.2024	13:30	Electron Beam Machining & Thermal Energy M.
9	28.11.2024	13:30	Ultrasonic Machining (USM)
10	05.12.2024	13:30	Abrasive Flow Machining (AFM)
11	12.12.2024	13:30	Lab Trip (In the department)
12	19.12.2024	13:30	Midterm
13	26.12.2024	13:30	Presentation
14	02.01.2025	13:30	Presentation
15	09.01.2025	13:30	Presentation

***The presentations should include;**

- Presentation of 10 articles made in recent years about the related non-traditional manufacturing process.

EXAM

Midterm: Includes the subjects held on at the first 10 weeks. (%50)

Final Exam: Presentations will be evaluated. (%50)

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

Not: Lessons will be held in the classroom in innovation center (CAD/CAM Lab) in mechanical engineering laboratories.