Project work description

Title:	Intézeti azonosító:
Development of fluxgate magnetic sensor	MEI-120/2024

Description and aims:

Fluxgate magnetic sensors play a crucial role in identifying weak magnetic fields, relying on Faraday's law of electromagnetic induction. The design of these sensors typically includes excitation windings, a core, and sensing windings, resembling the structure of a transformer. The objective of this project is to characterize the coil of the fluxgate sensor and design a circuit that utilizes the coil as a magnetic sensor.

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No. of students: (min./max.):	3/5 students	
Prerequirements:	Interest in magnetic sensors and measurements and analog circuit design.	
Recommended schedule:	Week 1	Assignment issuance, clarification
	Week 2	Creating a GANTT chart, forming a concept, presenting it to the consultant
	Week 4-5	Literature review, data collection
	Week 6-10	Magnetic measurements and circuit design
	Week 11-13	Prototype manufacturing, documentation
	Week 14	Presentation