

Projektmunka adatlap

Title of the project work: Developing a two-stage RPM limiter device for internal combustion engines with a microprocessor.		Intézeti azonosító: MEI-065
Aim of the project work: Making a brand new, own-developed revolution limiter for internal combustion engines. The revolution limiter will have a function as limiting the peak RPM of the engine, with also a built-in launch control operated by a push button. The internal build setup will contain signal processing and conditioning elements and sensors , controlled and driven with a microprocessor .		
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Group size (min./max.):	2 - 4 person	
Material requirements available:	Microprocessor Developing kit with breadboard	
Material requirements pending purchase:	<ol style="list-style-type: none"> 1. Signal conditioning and processing elements 2. Electrical circuit elements 	
Usable financial frame (max.):	Self-financed (aside from the microcontroller)	
Expected schedule:	Week 1.-2.	Project team founding, defining the tasks in the project group. Time and work scheduling for the semester. Getting in touch with the microcontroller and its developing kit. Possible problem detecting and solving opportunities. Starting the Work Log(s) . Making the handover and responsibility reports.
	Week 3.-4.	Cognition of the needed HW and SW elements. Understanding the microprocessor's programming. Collecting the possibilities of the RPM controlling in case of ICEs. Comparing the different methods and choosing .
	Week 5.-6.	Assembling the electrical circuit, HW with respect to the possible controlling methods given by the microcontroller. Basic testing.
	Week 7.-9.	Designing and writing the basic controller program. Testing, error searching, precisioning.
	Week 10.-13.	Making the final version of the program. Examination of operation: <ul style="list-style-type: none"> - if working, final tuning. - if not working, debugging, then final tuning. - making the necessary documentation.
	Week 14.-15.	Presentation and evaluation, work logs and documentation submitting.