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Transport of the future, sustainable transport, electromobility, education for the future



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Application for a change in the school register

I would like to request a change in the school register of the Secondary Industrial School of Mechanical and Electrical Engineering, České Budějovice, Dukelská 13, IZO: 060075970.

Specifically, the number of pupils in the fields of 23-41-M/01 Mechanical Engineering and 26-41-M/01 Electrical Engineering has changed for the school year 2024/25. Last school year, based on a change in the register of schools, we opened a new focus Electric Mobility and Alternative Drives with 22 pupils, in this school year we have 1. We would like to continue with this set range of focuses that our school offers and in the following year we will again recruit pupils to all 4 focuses that we currently have. Specifically, there will be 1 class in 23-41-M/01 Mechanical Engineering and a total of 3 classes in 26-41-M/01 Electrical Engineering (Electrical Power Engineering and Electrical Machinery, Robotics and Control Engineering and Electromobility and Alternative Drives).

The purpose of the Electromobility and Alternative Propulsion focus is to link the curriculum from the disciplines of Mechanical Engineering and Electrical Engineering, building on 26-41-M/01 Electrical Engineering. As a result, graduates of this major can obtain higher sections of NV 194/2022, which is not legislatively possible for graduates of 23-41-M/01 Mechanical Engineering. The educational content of this specialization has been and is still being discussed with the Department of Education as well as with representatives of companies interested in cooperating with the school on this specialization. On the topic of electromobility and the outcomes of the 1st year, a round table was organised on 8 June 2023 with the participation of representatives of BOSCH, EON, the MIT electromobility platform, Škoda Auto and the founder. All participants evaluated the emergence of this focus very positively, as well as the work presented by the pupils of the 1st EM class. Cooperation with universities is also continuing. In particular, thematic plans were drawn up with UJEP and ZČU to ensure continuity of the curriculum and to enable graduates to continue their studies not only at these universities.

With this change, we are also responding to the long-standing fact that applicants are significantly more interested in the field of electrical engineering than in mechanical engineering. This observation applies not only to our school, but to all engineering courses in the region. Employers nowadays also strongly prefer graduates of electrical engineering, as today's industries require employees who are proficient in electrical engineering in order to obtain higher sections according to the National Civil Code 194/2022.

The new focus is also an opportunity for us to revise both the educational content and the organisation of teaching. Teaching in this focus will be implemented in thematic blocks rather than in separate subjects. In this way, we want to deepen the perception of the connections in the individual topics and not to artificially separate related material.

Thanks to the fact that the newly created specialization combines the disciplines taught at our school, there are no new staffing requirements associated with its creation, because teachers of professional subjects will have to be recruited independently of the creation of the new specialization.

Material security is continuously solved with partner companies (electric car from Škoda Auto, charging station from EON), but higher investments in workshop equipment (car diagnostics) and specialist classrooms can be expected. Even in this case, however, there will not be a significant change in the planned financial requirements of the school, because the current equipment of the school workshops and laboratories is often far beyond its useful life, and thanks to the founder and also from projects we are continuously working on improving the quality of material equipment.

Major investment items related to the new focus:

- equipment of workshops with diagnostics, relevant software - 400 000 CZK



- installation of a photovoltaic panel, battery system and connection to a charging station - CZK 200,000 (not including any subsidy)
- equipment of specialist classrooms of electrochemistry, electrical equipment, electrical drives and construction classroom - 800 000 CZK
- electric vehicle classroom/station equipment 100 000,-

The above investments can be spread over several years with regard to the progress of the pupils in each year, and we are negotiating with companies for sponsor contributions/donations/loans.

For information, I attach the current situation in each grade and subject at the beginning of the school year 2023/24.

Scope				
Electrical Engineering	Vintage	Pupils	Of the boys	Of which girls
	1	84	82	2
	2	76	72	4
	3	59	57	2
	4	54	52	2
	Total	273	263	10
Engineering	Vintage	Pupils	Of the boys	Of which girls
	1	24	22	2
	2	28	27	1
	3	52	49	3
	4	44	42	2
	Total	148	140	8

I also attach information on the results of the admissions procedure for the school year 2023/24.

Class (field)	1.ER (robotics)	1.EE (electricity)	1.EM (electromobility)	1.S (mechanical engineering)
Number of applications/entrants	81/29	60/28	45/27	45/24

In view of the above reasons, I request to change the capacity in the field of 26-41-M/01 Electrical Engineering to 330 pupils and in the field of 23-41-M/01 Mechanical Engineering to reduce the capacity to 150 pupils, with the proviso that the school will open only 4 classes per year, so the number of pupils will not exceed a total of 480, which corresponds to the current situation.

Thank you for the positive handling of this request.

Mgr. Jaroslav Koreš, Ph.D.



school director

