

Short-term Intensive Course on Mechanical Construction, Inspection and Diagnostics

The aim of the course is to transfer modern and practice-oriented skills of operation and maintenance of machinery. Participants learn automotive constructions and its operation as a mechanical construction. Based on its experience the next course deals with the general concepts of constructing parts, devices and machines. In possession of these concepts the calculation with MATLAB and the application of the FEM and 3D presentation are introduced. An implemented part, device, machine must be tested hence the measuring systems and methods, material testing and diagnostics systems of operating machines are introduced. The project ends with practical training of the basic welding processes.

Week 1

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
2	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
3	Automotive constructions	Calculation with MATLAB	Engineering experimentation	Material testing	Laboratory Practice
4					
5					
6	Machine design	FEM and 3D application	Machine diagnostics	Welding processes	Laboratory Practice
7					
8					

Week 2

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
2	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
3	Automotive constructions	Calculation with MATLAB			Laboratory Practice
4					

5			Engineering experimentation	Material testing	
6	Machine design	FEM and 3D application	Machine diagnostics	Welding processes	Laboratory Practice
7					
8					

Week 3

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
2	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
3	Automotive constructions	Calculation with MATLAB	Engineering experimentation	Material testing	Laboratory Practice
4					
5					
6	Machine design	FEM and 3D application	Machine diagnostics	Welding processes	Laboratory Practice
7					
8					

Week 4

	Monday	Tuesday	Wednesday	Thursday	Friday
1	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
2	Subject specific English	Subject specific English	Subject specific English	Subject specific English	Subject specific English
3	Automotive constructions	Calculation with MATLAB	Engineering experimentation	Material testing	Laboratory Practice
4					
5					

6					
7	Machine design	FEM and 3D application	Machine diagnostics	Welding processes	Laboratory Practice
8					

Please note that this is only a sample schedule. Subjects can be changed and further subjects can be added according to the needs of the applicants.

For further information please contact:

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