

REVIEW OF MASTER'S THESIS

Student's name: Thinesh Kumar Jayakumar
 Master's thesis topic: Testing of FLM 3D Printer
 Master's thesis supervisor: Ing. Petr Keller, Ph.D.
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Evaluation aspects of master's thesis	Assessment			
	excellent	very good	good	failed
Fulfilling scope of assignment		X		
Technical level of work			X	
Applicability in practice		X		
Use of acquired knowledge		X		
Initiative to solve problems		X		
Conceptual approach			X	
Formal aspects and structure of thesis		X		

The aim of the work was to be a familiar with FLM (FDM, FFF) 3D printing technology and with various materials used in this technology. Next task was to make a review of thermoplastic materials used for 3D printing and to find appropriate printing parameters for selected materials.

In the theoretical part of the diploma thesis there are described different technologies of 3D printing, introduced 3D printer REBEL II and made the research of common materials for FLM technology.

The practical part is focused on testing of 3D printing from common materials. The student presents basic experiences with the printing of individual materials, unfortunately more detailed evaluation is missing. The author also did not respect some of the recommendations he had received before completing his work, so his work include a number of mistakes and inaccuracies (for example, an inaccurate description of Figure 12 and mistakes in a related text, inaccuracies in the table at the end of the work, etc.). It would also be preferable to better visualize the shape of the components used for the test prints.

Additional questions:

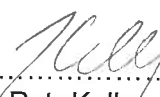
- Would you suggest any further improvements of used 3D printer?

In conclusion, the work meets the requirements of the assignment and for the conferment of academic degree.

I recommend the work for the defence.

I propose to evaluate the master's thesis as **VERY GOOD**.

Liberec, 1. 6. 2018



 Ing. Petr Keller, Ph.D.
 supervisor of the master's thesis