

I. IDENTIFICATION DATA

Thesis name:	Current Controlled Buck Converter Based PV Array Emulator
Author's name:	Sahilkumar Arvindbhai Prajapati
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of Power Engineering
Thesis reviewer:	Ing. Tomáš Burda
Reviewer's department:	KOSTAL CR, spol. s r.o.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
Please insert your commentary.	

Satisfaction of assignment	fulfilled with minor objections
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
Last point of the assignment dealing with the design of the PV emulator prototype is not explained well. I would expect the design of the PCB, a better description of elected components and more details.	

Method of conception	correct
<i>Assess that student has chosen correct approach or solution methods.</i>	

Technical level	D - satisfactory.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
Simulation model is described but, the 4 th point of the assignment is incomplete.	

Formal and language level, scope of thesis	B - very good.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
The equations and pictures should be done in better quality.	

Selection of sources, citation correctness	A - excellent.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	

Additional commentary and evaluation
<i>Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.</i>
Please insert your commentary (voluntary evaluation).

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

The thesis is dealing with actual topics of HIL simulation of the PV array system, 3 point of the assignment are fulfilled without any objection but the the 4th point dealing with the design of the prototype is incomplete.

Questions:

- 1) Have you think about realization of HW prototype? Can you describe your HW prototype at least in blocks?
- 2) In Fig. 4.1 is system configuration of PV emulator how will you control the load? What will act as a load?

I evaluate handed thesis with classification grade **C - good**.

Date: **25.1.2019**

Signature: