

I. IDENTIFIKAČNÍ ÚDAJE

Název práce:	Energy consumption of AC system
Jméno autora:	Praveen Kumar Muthusamy
Typ práce:	diplomová
Fakulta/ústav:	Fakulta strojní (FS)
Katedra/ústav:	Department of Environmental Engineering
Oponent práce:	Ing. Jan Králíček
Pracoviště oponenta práce:	Department on Environmental Engineering, FS, CTU in Prague

II. HODNOCENÍ JEDNOTLIVÝCH KRITÉRIÍ

Zadání	průměrně náročné
The point of the interest is very current in the contemporary time.	

Splnění zadání	splněno s menšími výhradami
I miss an evaluation or comparison of the sizing of AC system in the house of interest, see the technical library in Prague. I think this point should be the main goal.	

Zvolený postup řešení	správný
The author probably created some simple model of the building or calculation of gains from internal and external sources. Than he compared the measured and calculated data. But the real data are very different from the simulation. The author explains a reason of difference – humidity of climate, the open hours of the library, number of people.	

Odborná úroveň	C - dobře
Every diagram has comment by author. There are also well explanation of the difference between calculated and measured data. The author has not used a lot theory for explanation, or he has not described some basic principles of the heat gain in the theoretical part of the theses. There is no theoretical part.	

Formální a jazyková úroveň, rozsah práce	C - dobře
There is no references of the picture, diagram or tables in the text.	

Výběr zdrojů, korektnost citací	C - dobře
The author has used a recommended literature. There is not complete information about literatures in the reference and bibliography (e.g. ISBN code). The author should use more theoretical information or literature then are presented.	

Další komentáře a hodnocení	
The CD as annex is empty. There are no information.	

III. CELKOVÉ HODNOCENÍ, OTÁZKY K OBHAJOBĚ, NÁVRH KLASIFIKACE

The thesis is very short. It is as a report from evaluation. But diploma theses should contain more information. Mainly the theoretical and practical part where the student can apply his knowledge which he has obtained during his studying. I think, that this work is good, the evaluation of the comparison is very practical, but I miss theoretical part. There is no description of the model which was used (e.g. ESP-r ??). Some comparison of the AC system should be presented in the conclusion of the thesis. Is the actual solution of AC system in the building convenient or you can find some improvement...?

Předloženou závěrečnou práci hodnotím klasifikačním stupněm **C - dobře**.

Datum: 3.8.2017

Podpis: