

THESIS SUPERVISOR'S EVALUATION OF STUDENT

Thesis title:	Solar Irradiance Decomposition Using the Erbs Model
Author:	Nihal Muhammed KANNANARI
Thesis type:	Bachelor
Faculty:	Faculty of Mechanical Engineering
Department:	Department of Environmental Engineering
Thesis supervisor:	Ing. Martin Barták, Ph.D.
The hachelor thesis "Solar Irrag	diance Decomposition Using the Erbs Model" submitted by Mr. Kannanari
	of global solar irradiance (or solar energy incident on a horizontal surface)
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	ents. The calculation model developed by Erbs et al. estimates the diffuse
	of global irradiance. This model is based on the clearness index which
•	with the extraterrestrial radiation. The thesis topic represents an
appropriate challenge for a back	chelor student in terms of theoretical difficulty and demand on technical
skills.	
The main test for NAv Kenness	
	ri was to get familiar with the solar energy calculation principles and to
•	o a spreadsheet processor. MS Excel was used to process the measured sola
data from the year 2007, kindly	y made available by dr. Jirka from ENKI, o.p.s. Třeboň.
The student worked on his the	sis project with a reasonable interest and effort. He showed the ability to
	hich were necessary for his tasks. He had to work with a data-file of more
	ar solar data measured in 15-minute intervals). On the other hand, Mr.
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•	derstanding some concepts of solar energy calculations. I think that he was a
	e was studying the recommended literature. When writing up his thesis, he
tended to be fast rather then c	onscientious.
In conclusion, Mr. Kannanari n	roved that he is able to implement the knowledge gained in the study
	skills by self-learning. He is able to solve engineering problems under
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	Id have expected him to be more careful in literature reading and more
	In my opinion, the thesis fulfills the criteria for the Bachelor degree in
Mechanical Engineering at CTU	l in Prague.
I suggest the overall evaluation	n grade for the thesis as C (good) .
Date: 6th August 2020	Signature:

Ing. Martin Barták, Ph.D.