

I. IDENTIFICATION DATA

Thesis title:	Home Automation using Arduino.
Author's name:	Fahad Bin Ahmed
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Mechanical Engineering (FME)
Department:	Department of Instrumentation and Control Engineering.
Thesis reviewer:	Ing. Lubomír Musálek
Reviewer's department:	Department of Instrumentation and Control Engineering.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>How demanding was the assigned project?</i>	
Please insert your comments here.	

Fulfilment of assignment	fulfilled
<i>How well does the thesis fulfil the assigned task? Have the primary goals been achieved? Which assigned tasks have been incompletely covered, and which parts of the thesis are overextended? Justify your answer.</i>	
The student fulfilled the assignment.	

Methodology	correct
<i>Comment on the correctness of the approach and/or the solution methods.</i>	
The student chose the correct solution procedure	

Technical level	B - very good.
<i>Is the thesis technically sound? How well did the student employ expertise in the field of his/her field of study? Does the student explain clearly what he/she has done?</i>	
The student created a theoretical model, which he implemented in the form of sensors connected to the Arduino.	

Formal and language level, scope of thesis	B - very good.
<i>Are formalisms and notations used properly? Is the thesis organized in a logical way? Is the thesis sufficiently extensive? Is the thesis well-presented? Is the language clear and understandable? Is the English satisfactory?</i>	
The thesis contains grammatical errors and formal shortcomings, such as the entire citation link to pictures.	

Selection of sources, citation correctness	A - excellent.
<i>Does the thesis make adequate reference to earlier work on the topic? Was the selection of sources adequate? Is the student's original work clearly distinguished from earlier work in the field? Do the bibliographic citations meet the standards?</i>	
The student used 27 citations. That is enough use.	

Additional commentary and evaluation (optional)
<i>Comment on the overall quality of the thesis, its novelty and its impact on the field, its strengths and weaknesses, the utility of the solution that is presented, the theoretical/formal level, the student's skillfulness, etc.</i>
Please insert your comments here.

III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

The student fulfilled the assignment. The work deals with the possibilities of using Arduino to manage a smart house.

In the first part, the author dealt with the possibilities offered by Arduino and how it could be used to manage a smart house (Internet of Things). The second part describes the types of sensors that could be used and their specific selection suitable for the Arduino. The third part deals with the practical implementation of connecting all sensors into one Arduino and programming the Arduino itself. The work contains minor grammatical errors. At the end of the work is also outlined the future continuation, which I appreciate

I recommend the thesis for defense.

The grade that I award for the thesis is **B - very good**.

Questions

- 1. Arduino was used in the work. What type of equipment could be used instead of Arduino?**
- 2. How many numbers of Arduino should be used for real and for real house?**

Date: **27.1.2022**

Signature: