REVIEWER'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**The future of fixed and mobile Internet and its influence on the development of networks**
Author's name:	**Zifan Han**
Type of thesis :	bachelor
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Department of telecommunication engineering
Thesis reviewer:	Ing. Robert Bestak, PhD.
Reviewer's department:	Department of telecommunication engineering

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
Evaluation of thesis difficulty of assignment.	
The work is based on the study research.	

Satisfaction of assignment	fulfilled
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.	
The student fulfilled all the points of the bachelor thesis assignment.	

Method of conception	correct
Assess that student has chosen correct approach or solution methods.	
The student proceeded systematically based on the results of the literature study and research.	

Technical level	C - good.
Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.	
The student sometimes misuses or confuses usage of technical terms (e.g. *first generation of mobile Internet vs first-generation mobile network* (pg.10); or *frequency band vs channel bandwidth* (pg. 12), or *soft switching vs. soft handover* (pg. 12), etc.)	

Formal and language level, scope of thesis	C - good.
Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.	
In general, the student should pay attention when writing and formulating sentences and idea. Sentences are often very long and difficult to follow and to understand. In several case the sentences make no sense or logic (*e.g. "Then based on the higher average LTE coverage of operators in each EU country and the overall coverage of 97% in the EU-27." or "By the end of 2020, more than 50 billion connected devices WILL be using cellular network services." or "CURRENTLY, in the case of the EU, as of March 2021, 5G commercial services have been deployed in 24 EU-27 countries" or "These features make D2D a very attractive solution to meet the stringent requirements of IoT for 5G network solutions" – which features?).* Additionally, all figures and tables should be referred and described in the text.	

Selection of sources, citation correctness	B - very good.
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.	
The thesis includes a relatively large number of sources and citations. However, in certain sections more citations would be more appropriate (e.g. Chapter 2). Additionally, the citation of references in the text isn't correct (e.g. instead of *"…time conditions. [14]"* should be *"…time conditions [14]."*)	

Additional commentary and evaluation
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.
The bachelor thesis analyzes the current state and the expected development of mobile and fixed Internet connections in the EU. It discusses the architecture of mobile networks, describes the problems faced by traditional fixed networks and highlights the necessity and benefits of future development towards 5G/6G mobile networks and F5G networks of new generation based on optical fibers.

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.

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

Date: **23.8.2022**   Signature: