

ASSESSMENT OF ANNUAL ACTIVITY PLAN OF PhD STUDENT academic year 2023/2024

PhD student

Name and surname, academic degree:	Dawit Dejene BIKILA
STAG ID:	E22843
Study programme:	Applied Informatics
Form of study / Year of study:	Full-time / 2 nd
Commencement date:	31. 10. 2022
Supervisor:	prof. Ing. Jan Čapek, CSc.
Faculty institute (workplace):	Institute of System Engineering and Informatics
Dissertation title:	Cyber Security of IoT

Study plan

Compulsory courses		Number of ECTS	Planned year of fulfilment				Date of Examination
			1.	2.	3.	4.	
1	Methodology of Scientific Work	15					02-04-2024
2	Advanced Methods of Mathematics and Statistics	15		x			
3	Theoretical Informatics	30		x			
4							
Compulsory options / Optional courses							
5	Theory of Data and Information Security	10		x			
6	Artificial and Computational Intelligence	10					
7							
8							
9							
State Doctoral Exam					x		
Defence of Dissertation Thesis						x	

Stage of work on the dissertation

Stage of work on the dissertation in a particular academic year:	
Proposed Plan	Real Achievements
Finding novelties in the field of dissertation proposal using literature review	Finding the novelties is done, and Part of the methodology is being compiled.

Scientific-Research Activities of PhD student

Publication outcomes of PhD student, participation in projects or other relevant activities performed in a particular academic year:		
Proposed Plan	Real Achievements	Points
<p>Internship at a foreign institution.</p> <p>One conference paper or article preferably in the Scopus database.</p> <p>Participation in SGS project</p>	<p>The internship has been completed successfully at the Constantine Philosopher University in Nitra, Slovakia.</p> <p>Accepted conference paper in the title: “MESSAGE BROADCAST METHODS FOR THE INTERNET OF THINGS” IDIMT-2024 New Challenges for ICT and Management 31st Interdisciplinary Information Management Talks. SCOPUS indexed.</p> <p>“MACHINE LEARNING-BASED ATTACK DETECTION FOR THE INTERNET OF THINGS” A journal article was submitted to the Future Generation Computer Systems journal, (Q1) and is currently being revised.</p> <p>Participated in the SGS.</p>	


Pedagogical activities of PhD student

Courses taught, format of teaching or other relevant pedagogical activities in a particular year:	
Proposed Plan	Real Achievements
Teaching “Artificial and Computational Intelligence” for 2hrs pre-weeks in the summer semester,	<p>The pedagogical activity of teaching the subject “Artificial and Computational Intelligence” for 2hrs a week was completed under Ing. Katrina Prihodova, Ph.D.</p> <p>The pedagogical activity of teaching the subject “Modelling and Simulation” for 4hrs a week was completed under Professor Jan Čapek, CSc.</p>

Study stays in the Czech Rep. and abroad / Internships, international cooperation etc.

Internships and study stays in a particular academic year:	
Proposed Plan	Real Achievements
The internship will be performed during this academic year.	<p>Completed: The internship was completed successfully at the Constantine Philosopher University in Nitra, Slovakia.</p> <p>Advanced data analysis using statistical analysis tools, for data preprocessing for ML-based attack detection model development.</p>

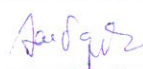
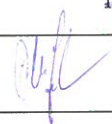
Annual activity plan of PhD student in a particular academic year arranged on: 29/09/2023

Student's signature:	Supervisor's signature:	Head of the institute's signature:
		



Evaluation of student activities performed in a particular academic year:

- Mr. Bikila wrote an article "Machine Learning-Based Attack Detection For The Internet Of Things" A journal article was submitted to the Future Generation Computer Systems journal and is currently being revised.
- Mr. Bikila also wrote a conference paper accepted in the IDIMIT conference, Proceedings from the IDIMT conference are included in the Web of Science and SCOPUS.
- He completed pedagogical duties in teaching the subject "Artificial and Computational Intelligence" for 2 hours a week as completed under Ing. Katrina Prihodova, PhD, and
- the subject "Modelling and Simulation" for 4hrs a week was completed under my supervision.
- The exam for methodology of science work is fulfilled, and exams for Advanced Methods of Mathematics and Statistics, Theoretical Informatics and Theory of Data and Information Security are planned for the winter semester of the academic year 2024/2025.
- The internship has been completed successfully as planned.

Supervisor's recommendation to continue study of PhD student:	YES	NO
Supervisor's signature:		
Agreement on the supervisor's recommendation by the head of the institute:	YES	NO
Head of the institute's signature:		

Annual assessment of PhD student in a particular academic year

Discussed by members of the advisory board on:	
Summary by the advisory board:	
Head of the advisory board's signature:	

Comments by the dean regarding the annual assessment:	
Dean's signature:	