



Маркелова Маргарита Олександрівна

Факультет інформаційних технологій

(<https://nubip.edu.ua/IT.NUBIP>)

Кафедра: Кафедра комп'ютерних систем, мереж та кібербезпеки

(<https://nubip.edu.ua/node/3713>)

Спеціальність: Комп'ютерна інженерія (<https://nubip.edu.ua/node/3713/3>)

Освітня програма: Комп'ютерні системи і мережі

Тема магістерської роботи: Методи і мікроконтролерні засоби моніторингу повітря

Керівник: Лахно Валерій Анатолійович, доктор технічних наук, професор

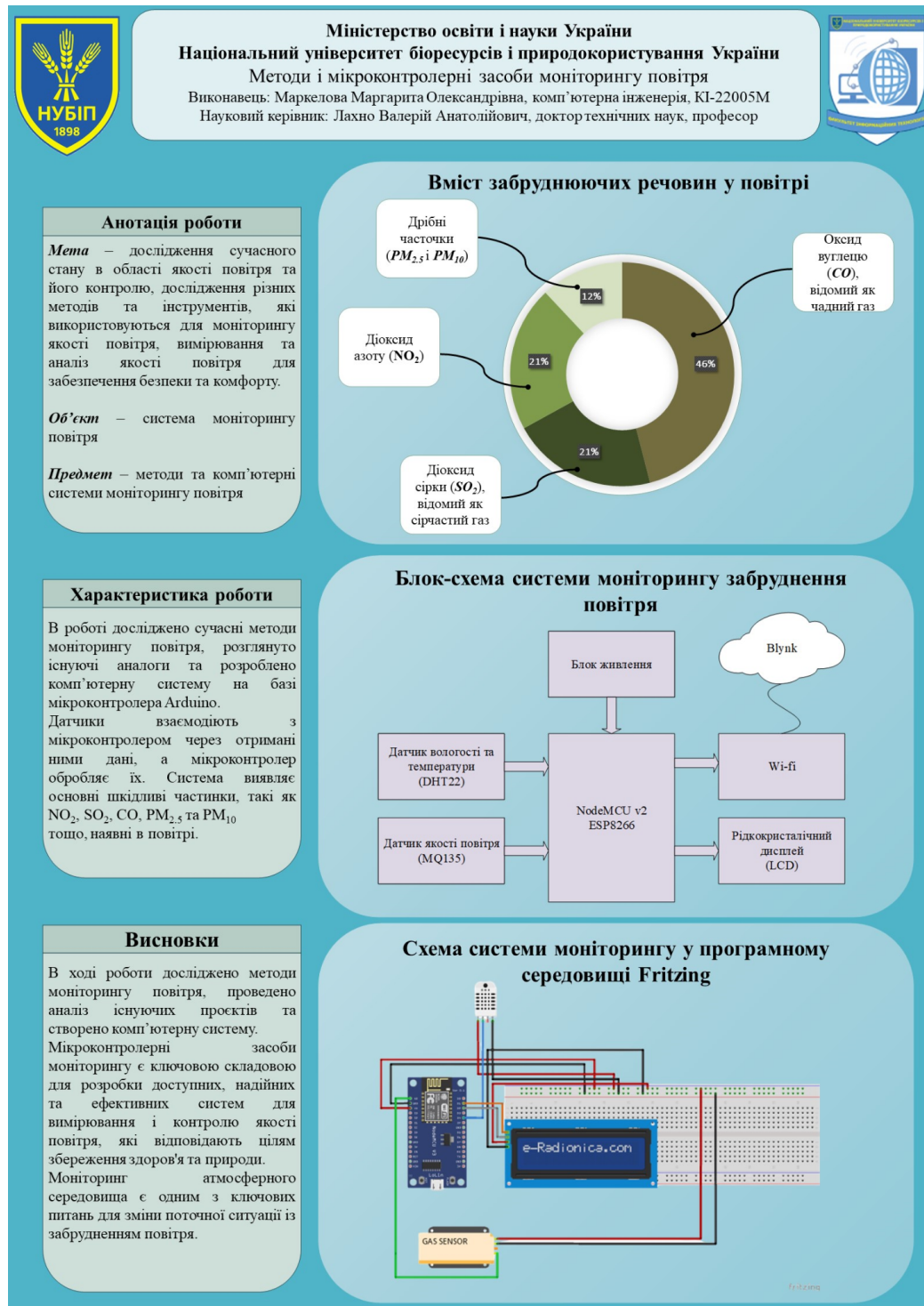


ПУБЛІКАЦІЇ

- М.М. Маркелова, О.Ю. Мельник, В.А. Лахно: Методи і мікроконтролерні засоби моніторингу повітря. Збірник матеріалів XIII Міжнародної науково-практичної конференції молодих вчених “ІНФОРМАЦІЙНІ ТЕХНОЛОГІЇ: ЕКОНОМІКА, ТЕХНІКА, ОСВІТА ‘2022”. 26-27 жовтня 2022 року, НУБіП України, Київ. – С. 143. Режим доступу:
<https://drive.google.com/file/d/1f2AWFKVqk3WOs2Eh0q6fSuA2qpqQeD97/view>
- М.М. Маркелова, В.А. Лахно: Методи і мікроконтролерні засоби моніторингу повітря. Збірник матеріалів XIV Міжнародної науково-практичної конференції молодих вчених “ІНФОРМАЦІЙНІ ТЕХНОЛОГІЇ: ЕКОНОМІКА, ТЕХНІКА, ОСВІТА ‘2023”. 26-27 жовтня 2022 року, НУБіП України, Київ. – С. . Режим доступу:



ПОСТЕР





РЕФЕРАТ

ОСОБИСТІ ДОСЯГНЕННЯ

- Файли сертифікатів за посиланням:
<https://drive.google.com/drive/u/0/folders/1vKao7jAgzd4hx8RScuDY0HpEUFNOwpDw>
- Сертифікат за проходження курсу «CCNAv7: Enterprise Networking, Security, and Automation»( Enterprise Networking, Security, and Automation.pdf)



Cisco Networking Academy

CCNAv7: Enterprise Networking, Security, and Automation

The student has successfully achieved student level credential for completing CCNAv7: Enterprise Networking, Security, and Automation course administered by the undersigned instructor. The student was able to proficiently:

- Configure single-area OSPFv2 in both point-to-point and multiaccess networks.
- Explain how to mitigate threats and enhance network security using access control lists and security best practices.
- Implement standard IPv4 ACLs to filter traffic and secure administrative access.
- Configure NAT services on the edge router to provide IPv4 address scalability.
- Explain techniques to provide address scalability and secure remote access for WANs.
- Explain how to optimize, monitor, and troubleshoot scalable network architectures.
- Explain how networking devices implement QoS.
- Implement protocols to manage the network.
- Explain how technologies such as virtualization, software defined networking, and automation affect evolving networks.

Маргарита Маркелова

Student

Національний університет біоресурсів і природокористування України

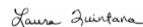
Academy Name

Ukraine

Location

03/06/2021

Date


Laura Quintana
VP & General Manager, Cisco Networking Academy

- Сертифікат за проходження курсу «Cybersecurity Essentials»( Cybersecurity Essentials.pdf)



Cisco Networking Academy

Cybersecurity Essentials

For completing the Cisco Networking Academy® Cybersecurity Essentials course, and demonstrating the following abilities:

- Describe the tactics, techniques and procedures used by cyber criminals.
- Describe the principles of confidentiality, integrity, and availability as they relate to data states and cybersecurity countermeasures.
- Describe technologies, products and procedures used to protect confidentiality, ensure integrity and provide high availability.
- Explain how cybersecurity professionals use technologies, processes and procedures to defend all components of the network.
- Explain the purpose of laws related to cybersecurity.

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

Маргарита Маркелова

Student
23/04/2022
Date

- Сертифікат за проходження курсу «Introduction to Cybersecurity»(
 Introduction to Cybersecurity 2.pdf)



Cisco Networking Academy

Introduction to Cybersecurity

For completing the Cisco Networking Academy® Introduction to Cybersecurity course, and demonstrating the ability to explain the following:

- Global implications of cyber threats
- Ways in which networks are vulnerable to attack
- Impact of cyber-attacks on industries
- Cisco's approach to threat detection and defense
- Why cybersecurity is a growing profession
- Opportunities available for pursuing network security certifications

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

Маргарита Маркелова

Student
23/04/2022
Date

- Сертифікат за проходження курсу «Introduction to Cybersecurity(українською)»(
 Introduction to Cybersecurity.pdf)



Cisco Networking Academy

Introduction to Cybersecurity

For completing the Cisco Networking Academy® Introduction to Cybersecurity course, and demonstrating the ability to explain the following:

- Global implications of cyber threats
- Ways in which networks are vulnerable to attack
- Impact of cyber-attacks on industries
- Cisco's approach to threat detection and defense
- Why cybersecurity is a growing profession
- Opportunities available for pursuing network security certifications

Маргарита Маркелова

Student

Національний університет біоресурсів і природокористування України

Academy Name

Ukraine

19/06/2019

Location

Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

- Сертифікат за проходження курсу «CCNAv7: Introduction to Networks»( Introduction to Networks.pdf)



Cisco Networking Academy

CCNAv7: Introduction to Networks

The student has successfully achieved student level credential for completing CCNAv7: Introduction to Networks course administered by the undersigned instructor. The student was able to proficiently:

- Configure switches and end devices to provide access to local and remote network resources.
- Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
- Configure routers to enable end-to-end connectivity between remote devices.
- Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices
- Explain how the upper layers of the OSI model support network applications.
- Configure a small network with security best practices.
- Troubleshoot connectivity in a small network.

Маргарита Маркелова

Student

Національний університет біоресурсів і природокористування України

Academy Name

Ukraine

06/04/2021

Location

Date

Laura Quintana
Laura Quintana
VP & General Manager, Cisco Networking Academy

- Сертифікат за проходження курсу «Linux Unhatched»( Linux Unhatched.pdf)



Dear Маргарита Маркелова,

Congratulations on completing the NDG Linux Unhatched course in the Cisco Networking Academy. This letter documents you have successfully completed the NDG Linux Unhatched course, which provides an introduction to the Linux command line. Linux is everywhere! As the reach of Linux continues to grow, knowledge of Linux is a core skill for all IT professionals. By completing this course, you have gained a better understanding of Linux.

If you decide to pursue additional knowledge of Linux consider:

NDG LINUX ESSENTIALS

This course is the perfect next step for beginners looking to expand their skills and knowledge of Linux. This full-semester course can be delivered as instructor-led training or as a self-paced learning experience. The NDG Linux Essentials course is designed to prepare you for the Linux Professional Institute Linux Essentials Professional Development Certificate.

Again, congratulations and we wish you continued success!

Sincerely,
The NDG Team

NDG LINUX SERIES

This certification level series offers beginners more rigorous in-depth coverage. The NDG Introduction to Linux I and NDG Introduction to Linux II courses focus on the basic Linux system administration skills needed in preparation for the Linux Professional Institute LPIC-1 certification.

Date 24/10/2021

- Сертифікат за проходження курсу «Network Security»( Network Security .pdf)



Certificate of Course Completion

Cisco Networking Academy

Network Security

The student has successfully achieved student level credential for completing Network Security course administered by the undersigned instructor. The student was able to proficiently:

- Describe the security threats facing modern network infrastructures.
- Secure Cisco Routers.
- Implement AAA on Cisco routers using a local router database and external server.
- Mitigate threats to Cisco routers and networks using ACLs.
- Implement secure network design, management, and reporting.
- Mitigate common Layer 2 attacks.
- Implement the Cisco IOS firewall feature set.
- Deploy the Cisco ASA for firewall and NAT/PAT services.
- Implement a site-to-site IPsec VPN.
- Explain encryption types, confidentiality, integrity and authentication.
- Implement Zone-Based Policy Firewall.

Маргарита Маркелова

Student

Національний університет біоресурсів і природокористування України

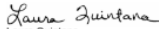
Academy Name

Ukraine

Location

17/01/2022

Date


Laura Quintana
VP & General Manager, Cisco Networking Academy

- Сертифікат за проходження курсу «PCAP: Programming Essentials in Python»( PCAP Programming Essentials in Python.pdf)



OpenEDG Python Institute Authorized Academy Program



Statement of Achievement

PCAP: Programming Essentials in Python

The graduate of the *PCAP: Programming Essentials in Python* course, provided by **Cisco Networking Academy®** in collaboration with **OpenEDG Python Institute**:

- knows the universal concepts of computer programming, including variables, data structures, algorithms, control flow, functions, and exceptions;
- can proficiently use the developer tools, the runtime environment, and the syntax and semantics of the Python language;
- can use fundamental programming techniques, best practices, customs, and vocabulary, including the most common standard library functions in Python 3;
- can write Python programs using standard language infrastructure, and knows the means by which to resolve typical implementation problems;
- knows how to work with modules and packages, process text and binary files, and use generators, iterators, and closures;
- understands the fundamentals of object-oriented programming (OOP) and the way they are adopted in Python.

Маргарита Маркелова

Student

Maciek Wichary
VP & CEO, OpenEDG

09/03/2021

Date

www.netacad.com | www.pythoninstitute.org

- Сертифікат за проходження курсу «CCNAv7: Switching, Routing, and Wireless Essentials»(Switching, Routing, and Wireless Essentials.pdf)



Cisco Networking Academy

Certificate of Course Completion

CCNAv7: Switching, Routing, and Wireless Essentials

The student has successfully achieved student level credential for completing CCNAv7: Switching, Routing, and Wireless Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Configure VLANs and Inter-VLAN routing applying security best practices.
- Troubleshoot inter-VLAN routing on Layer 3 devices.
- Configure redundancy on a switched network using STP and EtherChannel.
- Troubleshoot EtherChannel on switched networks.
- Explain how to support available and reliable networks using dynamic addressing and first-hop redundancy protocols.
- Configure dynamic address allocation in IPv6 networks.
- Configure WLANs using a WLC and L2 security best practices.
- Configure switch security to mitigate LAN attacks.
- Configure IPv4 and IPv6 static routing on routers.

Маргарита Маркелова

Student

Національний університет біоресурсів і природокористування України

Academy Name

Ukraine

Location

03/06/2021

Date

Laura Quintana
VP & General Manager, Cisco Networking Academy



НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
БІОРЕСУРСІВ І ПРИРОДОКОРИСТУВАННЯ
УКРАЇНИ

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вул. Героїв Оборони, 15.

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<https://nubip.edu.ua/node/1027>

РЕЗЮМЕ

 Резюме_Маркелова Маргарита.pdf

ДОСВІД РОБОТИ
