



# ODESA POLYTECHNIC NATIONAL UNIVERSITY

## ПРОЄКТ

ERASMUS+ KA2 CBHE 101129022 NEXT

***Цифрова трансформація для  
підтримки ринку праці  
наступного покоління***

# NEXT

Digital Transformations for  
Supporting Next-Generation Labour

Co-funded by the  
Erasmus+ Programme  
of the European Union



# ОСВІТНІ МОДУЛІ

Розробка та впровадження

Розширена нарада по міжнародній проектній діяльності

Одеська політехніка | 13 травня 2025

[nextstudy.eu](https://nextstudy.eu)



# Презентація освітнього курсу:

## Course outline

# 201 - Digital Humanities

### Chapter 1. Introduction

- Internet technologies in the humanities and education – a challenge of the times
- Humanitarian aspects of educational requirements

### Chapter 2. Digital format trends in humanitarian education

- Video lecture: it's significance
- Multimedia presentation: it's didactic features
- Webinar in online learning
- Streaming as a solution to the problem of information inequality in the humanities
- Flipped learning
- Media performance as a new way of communication between the reader and the author
- Augmented reality in education, culture, and art

- Storytelling as a method of teaching
- Digital format in team-based forms of humanitarian education
- The scientific library of the 21st century

### Chapter 3. Tests

### Chapter 4. Conclusions

- Recap of key points
- Recommendations for further implementation



## Презентація освітнього курсу: Course outline

# 203-Digital teamwork and leadership

### Chapter 1. Introduction

- Definitions
- Impact on the future labour market

### Chapter 2. Digital Teamwork Approaches

- Overview of the most common platforms
- Organization of communications
- Document collaboration teamwork
- The integration of personal digital devices
- Basic knowledge of cybersecurity and data protection

### Chapter 3. Implementation of teamwork and leadership processes

- Setting clear goals and expectations
- Facilitating collaboration and decision-making
- Empowering team members
- Providing digital support and guidance

### Chapter 4. Case studies or examples

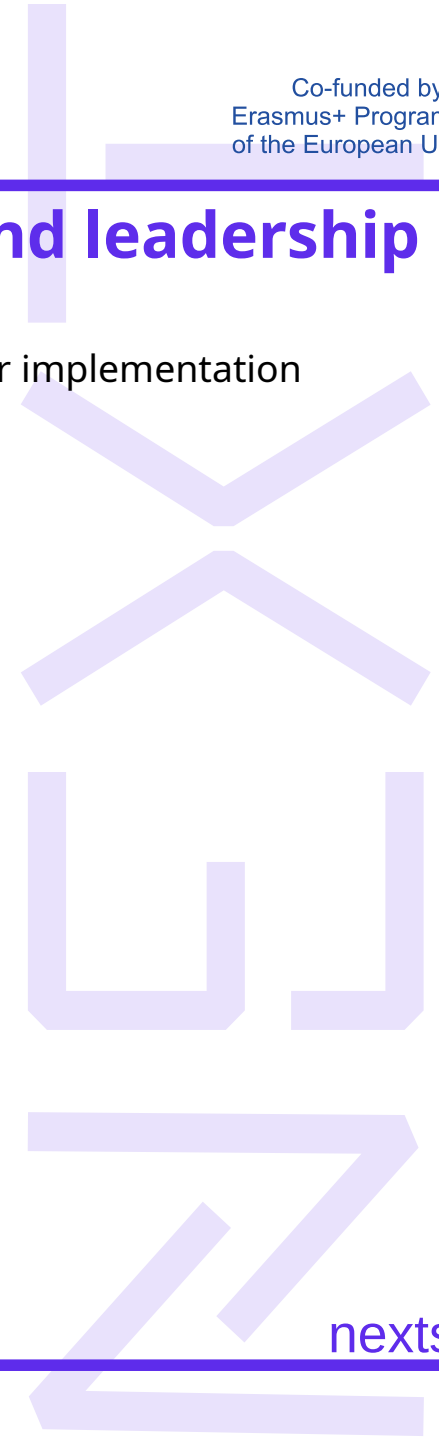
- Successful implementations of digital teamwork approaches
- Challenges Faced and Lessons Learned:
- Impact on Team Performance and Productivity

### Chapter 5. Tests

### Chapter 6. Conclusions

- Recap of key points

- Recommendations for further implementation





## Презентація освітнього курсу: Course outline

## 302- Natural activities and link with nature

### Chapter 1. Human impact on the environment in the age of digital technologies

### Chapter 2. Negative impact of digital technologies on the environment

- High energy costs of digital infrastructure
- Impact of electronics production on natural resources

### Chapter 3. Positive impact of digital technologies on the environment

- Optimizing the use of natural resources
- platforms
- Artificial intelligence for biodiversity conservation
- Digital platforms for environmental education development of cities
- Digital technologies in agriculture

### Chapter 4. Ways to solve problems related to the impact of digital technologies on the environment

- Optimization of energy consumption of digital technologies
- Environmental education and awareness

### Chapter 5. Use of digital technologies in environmental monitoring

- Main types of digital technologies in environmental monitoring
- Data analysis in environmental monitoring

### Chapter 6. The main types of digital technologies used in environmental monitoring, examples of their use and advantages and limitations

### Chapter 7. Geoinformation systems and their application

- Basic concepts and components of GIS
- Application of GIS
- Use of GIS for environmental monitoring

### Chapter 8. Data used in GIS, data analysis in GIS, examples of the use of GIS in

the study of nature, and remote methods of obtaining environmental information

- Data used in GIS
- Data analysis in GIS
- Examples of the use of GIS in the study of nature and interaction with it

### Chapter 9. Machine learning methods for environmental information analysis

- Basic methods of machine learning for environmental data analysis
- Examples of using machine learning in environmental monitoring

### Chapter 10. Analysis of satellite images

- Satellite images as a source of environmental information
- Advantages of using satellite images

### Chapter 11. Test



## Презентація освітнього курсу: Course outline

# 304 -Responses to special education needs

### Chapter 1. Human-computer interaction and special educational needs

- Tools of human-computer interaction
- Special educational needs and learning styles

### Chapter 2. Free software of human-computer interaction for students with physical disabilities

- free software for students with visual disabilities
- free software for students with hearing disabilities
- free software for students with speech disabilities
- free software for students with upper limb movement disorders

### Chapter 3. Design of educational computer games for students with physical disabilities

- Human and GamePlay: Games as Games or Toys as Play
- Mechanics-Dynamics-Aesthetics of computer games

### Chapter 4. Rapid prototyping of educational computer games

- Open Educational Resources
- Creating/remixing games in Scratch programming

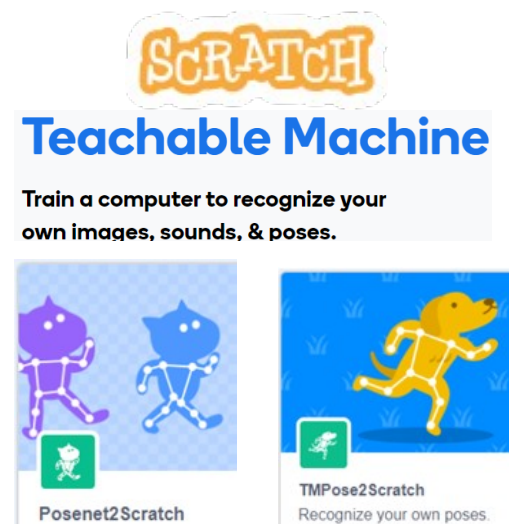
### Chapter 5. Gesture computer interface for computer games

- Knowledge-based approach and Feature-based approach in gesture recognition (GR)

- PoseNet neural network in the Knowledge-based GR
- Google Teachable Machine in the Feature-based GR
- Scratch programs with GR

### Chapter 6. Using images of objects and sound for human-computer interface

- Scratch programs with image recognition
- Scratch programs with sound recognition



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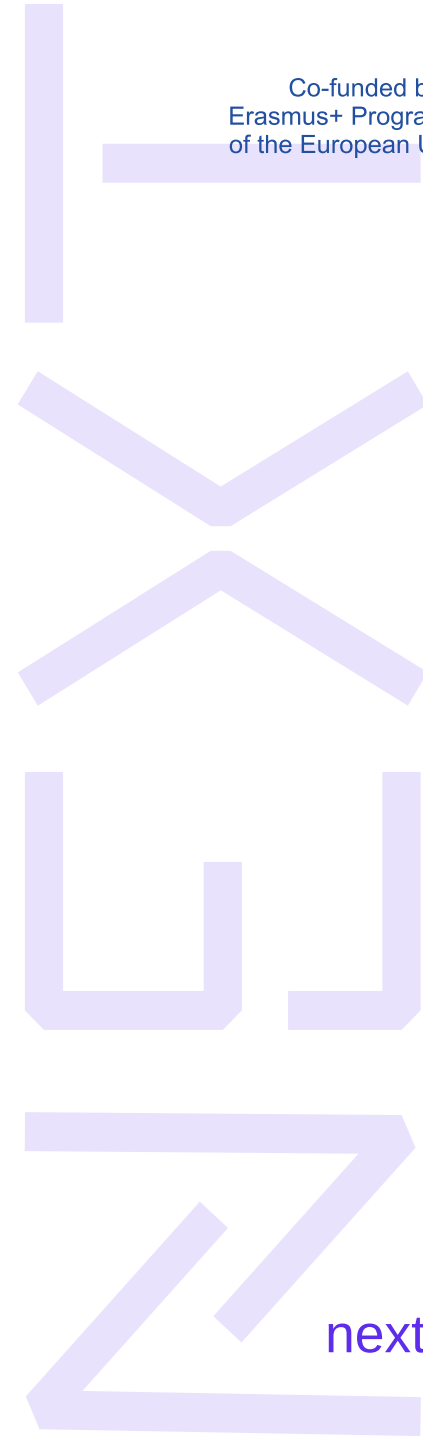
# NEXT ЛАБОРАТОРІЇ

Переобладнання приміщень

OPNU

Одеська політехніка | 13 травня 2025

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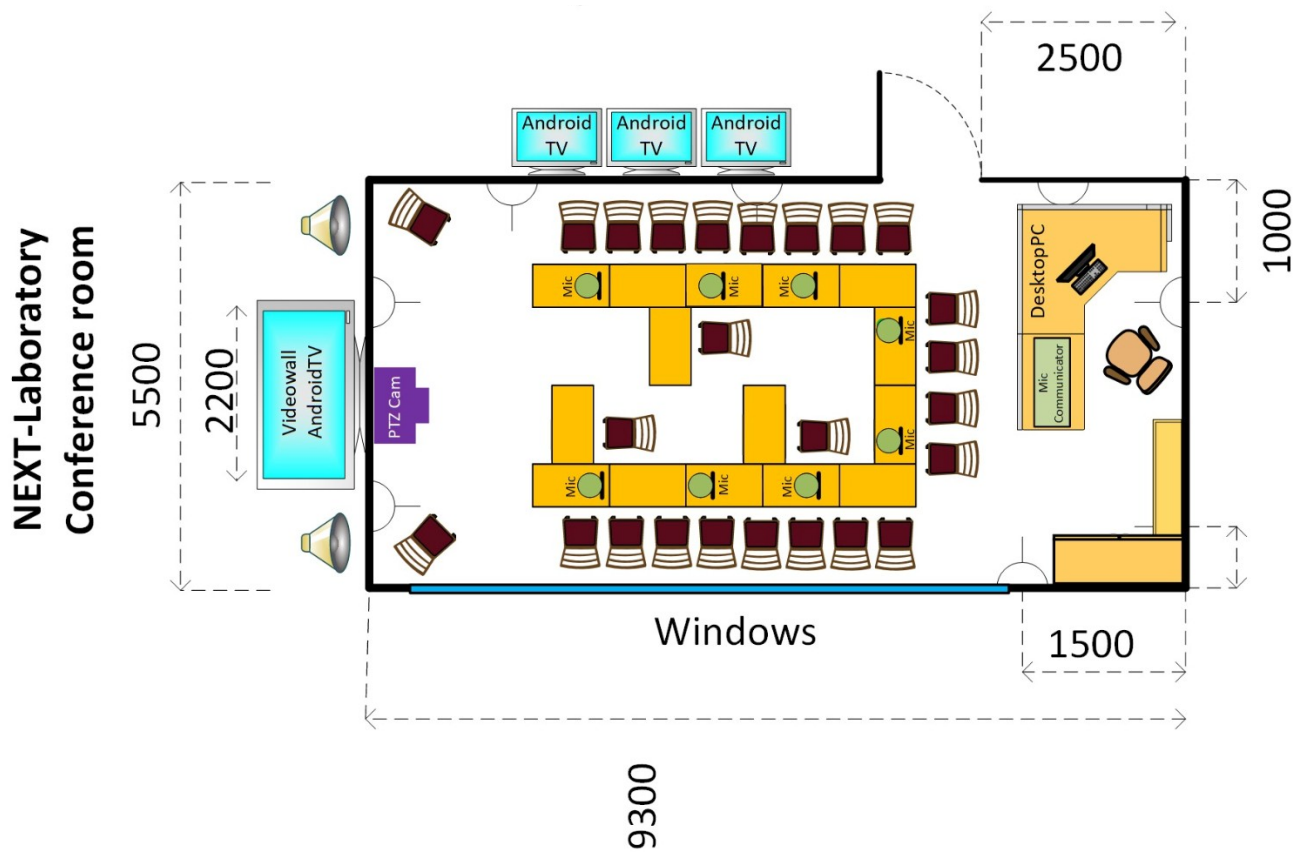




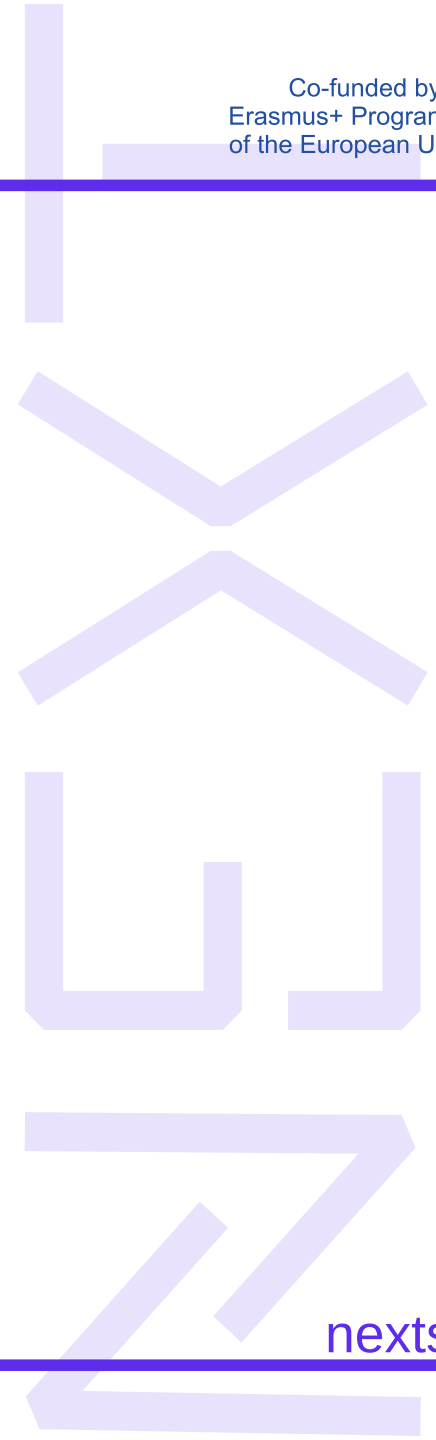
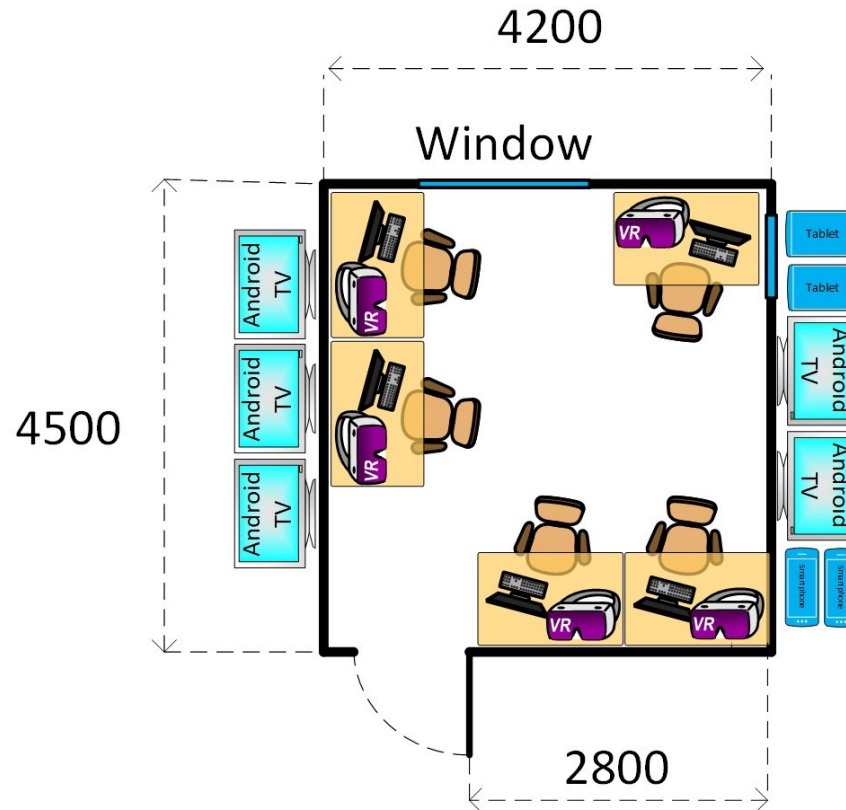
# Типи лабораторії

- **Hybrid Conferencing**
- **Virtual Reality**

- Лабораторія гібридних комунік



- Лабораторія віртуальної реальності



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# ПОШИРЕННЯ ІНФОРМАЦІЇ

Комунікаційний план та заходи

OPNU

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## Канали комунікації:

- **Official website**
- **Social network pages**
- **Instant messaging platform**
- **Regular meetings**
- **Dissemination events**



## Dissemination: Meetings and events

### Університетські заходи

- Scientific and Technical Council
- Meetings with staff and faculty members
- Defining project team, organization issues
- On-line meetings with ONPU project staff

## Dissemination: Meetings and events

### Інформаційний день проєкту

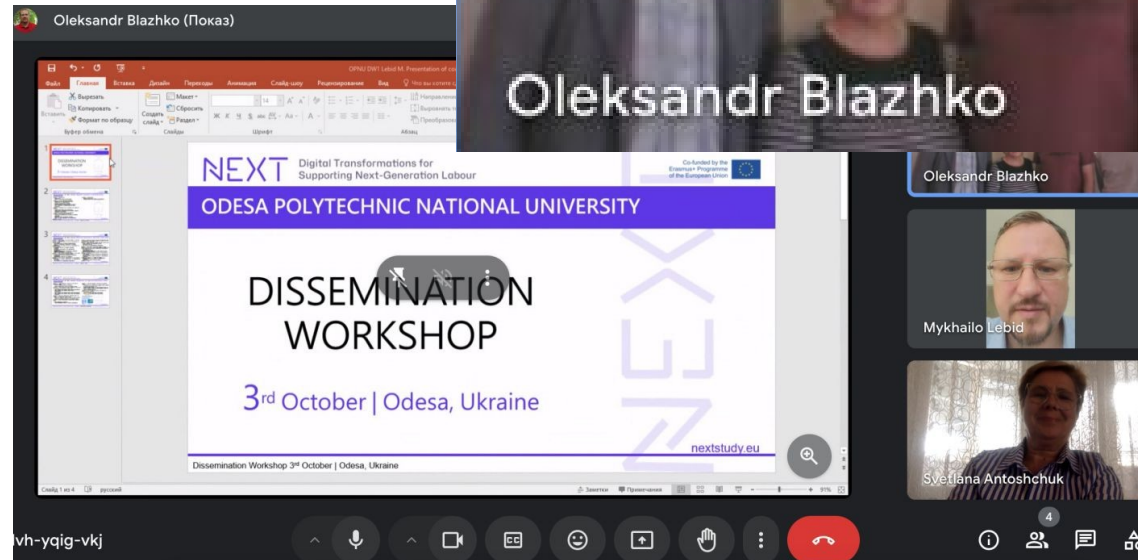
Stakeholders group:

- Students
- Academic staff
- Administrative staff

### Семінар по проєкту

Project team:

- Svitlana Antoshchuk
- Olga Romanova
- Oleksandr Blazhko
- Serhii Smik
- Mykhailo Lebid

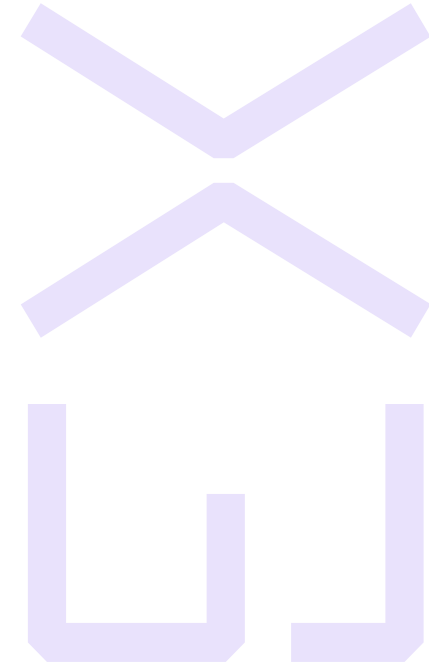




## Dissemination: **Офіційний** The project webpage at the official website

The screenshot shows the website of Odesa Polytechnic National University. The header includes the university logo, name, and tagline "Education. Science. Professionalism.". Navigation links include "TO THE ENTRANTS", "STUDENTS AND GRADUATE STUDENTS", "TO THE WORKERS", and "EMPLOYERS". A secondary navigation bar lists "UNIVERSITY", "QUALITY", "EDUCATION", "SCIENCE", and "INTERNATIONAL COOPERATION". The main content area features a banner for the "NEXT • International cooperation project" with the Erasmus+ logo and a photo of a person using VR. Below the banner, there is a link to the "Official website of the project" and a link to "View all international projects of the university". A sidebar on the left provides project details:

- Status: In force.
- Project implementation period: 2023 - 2027 .
- International program: Erasmus+ .





## Dissemination: The project news at the official website

### The project news at the official website

The screenshot shows the website header for Odessa Polytechnic National University with navigation links for 'TO THE ENTRANTS', 'STUDENTS AND GRADUATE STUDENTS', 'TO THE WORKERS', and 'EMPLOYERS'. Below the header, there are icons for 'UNIVERSITY', 'QUALITY', 'EDUCATION', 'SCIENCE', and 'INTERNATIONAL COOPERATION'. The main content area features a news article titled 'Odessa Polytechnic experts conducted a seminar on the results of the development of online courses within the framework of the ERASMUS+ NEXT project' dated October 4, 2024. The article includes a large image of a Zoom meeting titled 'DISSEMINATION WORKSHOP' held on October 3rd in Odesa, Ukraine. The meeting interface shows a presentation slide with the NEXT logo and university name, and three video thumbnails of participants: Oleksandr Blazhko, Mykhailo Lebid, and Svitlana Antoshchuk. Below the image, there is a short paragraph of text and a list of the research group members.

Odessa Polytechnic experts conducted a seminar on the results of the development of online courses within the framework of the ERASMUS+ NEXT project

October 4, 2024

As part of the implementation of the 3rd work package of the NEXT project "Digital transformation to support the workforce of the next generation" (project code 101129022), which is implemented under the EU Erasmus+ program, a seminar organized by experts from Odessa Polytechnic took place in the laboratory of the Institute of Computer Systems.

The research group included:



## Dissemination: Соц.мережі

### News about project events

The screenshot shows a Facebook group page for 'Odesa Polytechnic - on-line!'. The page is in dark mode. At the top, there is a navigation bar with icons for home, search, video, marketplace, profile, and groups. Below the navigation bar, the group name 'Odesa Polytechnic - on-line!' is displayed, along with 'Public group · 1.3K members'. A row of member profile pictures is shown, followed by buttons for '+ Invite', 'Share', 'Joined', and a dropdown menu. Below this, there are tabs for 'About', 'Discussion', 'Guides', 'Featured', 'People', 'Events', 'Media', and 'Files'. The 'Discussion' tab is selected. The main content area shows a post from 'Odesa Polytechnic' (Admin) with the text: 'Odesa Polytechnic experts held a seminar on the results of the development of online courses within the framework of the ERASMUS+ NEXT project'. Below the post, there is an 'About' section with the text: 'The group was created to provide up-to-date information on university life. Commercial advertising is strictly prohibited.' and 'Public' and 'Visible' settings. At the bottom of the screenshot, there is a dark bar with the text 'Public group · 1.3K members'.



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# ЗВІТНІСТЬ

Dissemination reports

I: Nov2023-Apr2024

II: May2024-Oct2024

III Nov2024-Apr2025

OPNU

Одеська політехніка | 13 травня 2025

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# Reporting: Dissemination report I

I: Nov2023-Apr2024

### Dissemination report from 01.11.2023 to 30.04.2024

**PARTNER: Odesa National Polytechnic University**

**ONLINE**

**Publishing info/news on project's website**

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)
Webpage of the project at the official website, (information about project, partnership, contacts, links) <a href="https://op.edu.ua/international/projects/next">https://op.edu.ua/international/projects/next</a>	30.11.23 Odesa	Students, academics, researchers	n/a	Project descriptions	L, R, N

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### Distribution of digital newsletters, announcements

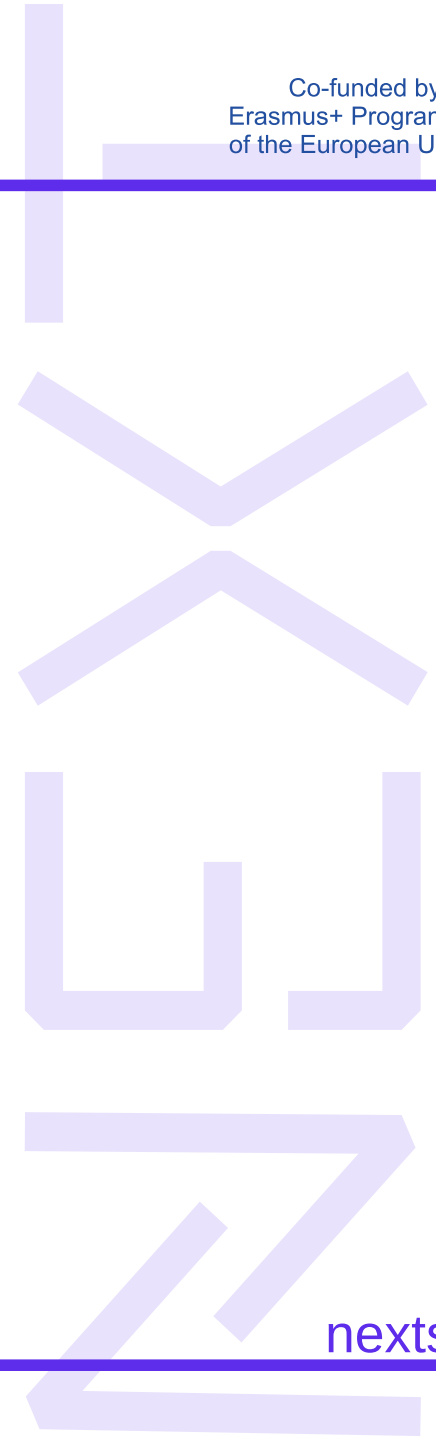
Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:
News post at the official website, about the participation in the Kick-off meeting of project in STUBA, Bratislava, Slovakia <a href="https://op.edu.ua/news/16987">https://op.edu.ua/news/16987</a>	27.01.24	Students, academics, researchers	n/a

### Use of online social networks to disseminate

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:
Official Facebook group of OPNU "Odesa politechnica on-line", news about workshop under the project <a href="https://www.facebook.com/groups/opnuonline/permalink/3730464167264307/">https://www.facebook.com/groups/opnuonline/permalink/3730464167264307/</a>	4.10.24 Odesa	Students, academics, researchers	n/a

### Use of online social networks to disseminate

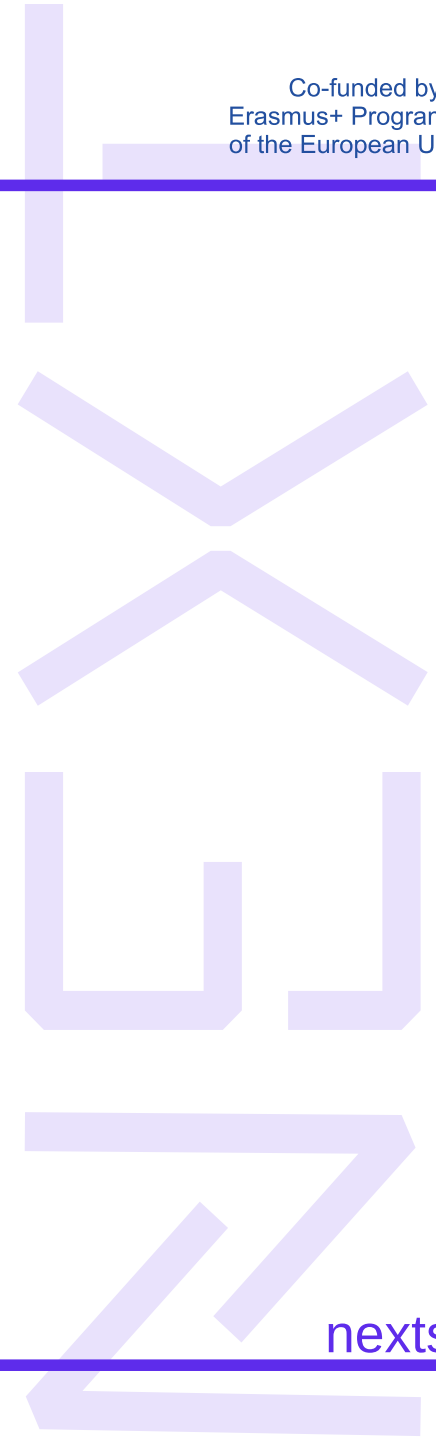
Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:
On-line meeting with ONPU project staff	27.11.23 Odesa	Project staff	5
Meeting with ONPU project staff	14.12.23	Project staff	5
Meeting with ONPU project staff	20.1.24	Project staff	5
Meeting with ONPU project staff	5.2.24	Project staff	5
Meeting with ONPU project staff	15.2.24	Project staff	5
Meeting with ONPU project staff	21.3.24	Project staff	5
Next WP3 OPNU team meeting	23.3.24	Project staff	5
Next WP3 OPNU team meeting	25.3.24	Project staff	5





## Reporting: Dissemination report II

II: May2024-Oct2024





## Reporting: Dissemination report III

III: Nov2024-Apr2025

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Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)
<b>FACE-T</b>					
<b>Organised conferences</b>					
Info day of the NEXT project in OPNU, online event to enhance awareness within project objective and specifics goals	03.10.24	Project participants, academic and administrative staff	16		
Workshop "Development of the learning materials"	03.10.24	Project participants	6		

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the results of the development of online courses  
<https://op.edu.ua/news/17147>

**Use of online social networks to disseminate**

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)
Official Facebook group of OPNU "Odesa politechnica on-line", news about workshop under the project	4.10.24 Odesa	Students, academics, researchers			

<https://www.facebook.com/groups/opnu.online/permaliink/3730464167264307/>

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### Dissemination report from 01.05.2024 to 30.10.2024

**PARTNER: Odesa National Polytechnic University**

**ONLINE**

**Publishing info/news on project's website**

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)

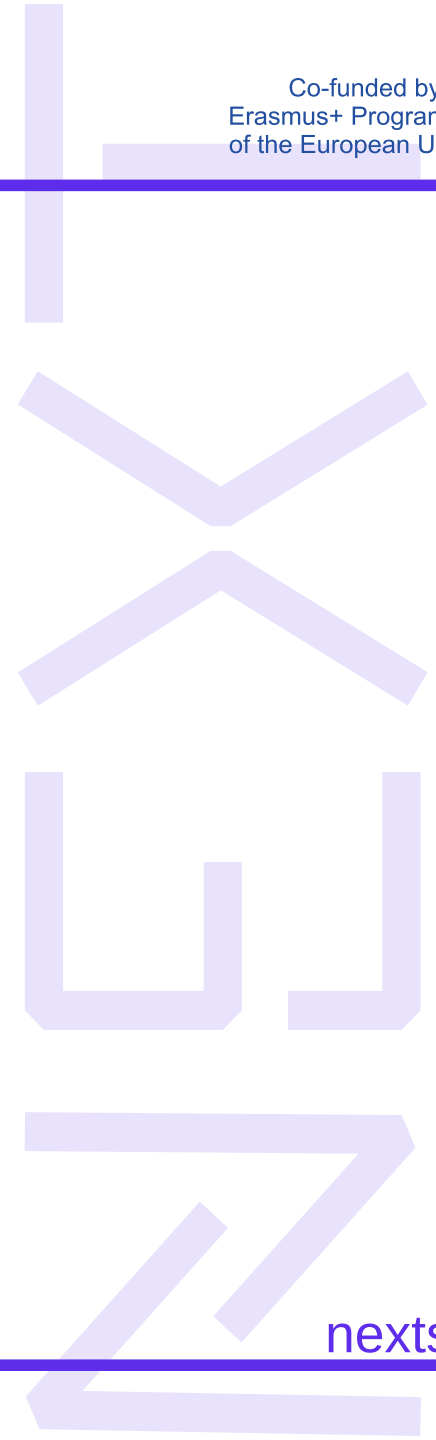
**Establishment of relevant links to the NEXT website from other sites**

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)

**Distribution of digital newsletters, announcements, and info via e-mail**

Titles, short description, names, web-addresses etc.	Date and Place:	Target Group(s):	Numbers Reached:	Kind of documentation available	Level (L = local; R = regional; N = national; E = EU; O = Outside EU)
News post at the official website, about the workshop about	04.10.24	Students, academics, researchers	n/a	Presentations of learning materials, workshop	L, R

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## Thank you for attention!

**Mykhailo LEBID,  
Odesa Polytechnic National University**

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