

## Module Specification:

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# Distributed Teams

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Within the Erasmus+ KA2 Capacity Building Project (CBHE)

WORK4CE – Cross-domain competences for healthy and safe work in the 21st century

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## 1 Summary

**Overall Learning Outcome:** Students will become familiar with approaches for the creation and working in distributed teams; based on the managerial, technological, and psychological aspects. The students will receive both theoretical and practical knowledge. Teaching processes are designed for a digital educational environment (DEE). Lectures and practices will be conducted in situ similar to distributed work.

### Target Group Analysis:

- Characteristics – The students in MSc programs in Computer Science, Project Management, and Organization administration.
- Previous competence and Prerequisites – none, however, basic knowledge in Intercultural Communication, Social Competence, Communication, Psychology is recommended.
- Needs (content, didactics, formats, time budget, ...) – 1 semester, 60 contact hours, online lectures, case-study, workshops, practices, and homework in online mode, the theory is based on practice
- Competence Goals – organize work environment, ability to organize goal-oriented work in the digital area, and provide scientific research is concerning work in the digital world
- Prospective Job Field – IT industry, Project management, Research, Business Administration, International Business, Entrepreneurial, Outsourcing, Finance

### Competences & Learning Outcomes.

- The students will learn what is a distributed team and how to organize effective work in it.
- The students get knowledge on the key approaches for launch and performance, and how to prepare the team for disbanding.
- The students will learn about the main influencing factors for successful work: trust, hiring, regulation rules, motivation, control, and leadership.

### Selection of Content: The main topics of the module:

- *Introduction* to a distributed team (history of distributed teams, Distributed teams – pros and cons, Distributed Team's lifecycle model)
- *Preparation phase*: describes how to hire an effective distributed team.
- *Team development phase*: explains how to create an effective team.
- *Launch phase*: defines how to begin working with a distributed team.

- *Performance management phase*: illustrates the work performance management in a distributed team
- *Disbanding phase*: express how the work is ended and how to support the team.

**Activities and Teaching/Learning Methods:**

- Distance learning materials
- Virtual lectures
- E-books and scientific articles
- Case-study
- Tests
- Individual Homework
- Presentation (reports)
- Workshop
- Teamwork
- A mixture of all the above-mentioned methods is used to address all competencies.

The Activity Plan (see below in Section 3) during one semester includes theory classes and practical works (total 37 contact hours), homework, and self-study (90 hours).

Students will read the learning materials, attend lectures, work in a distributed team for preparing homework, create a presentation for a case study and take part in the virtual discussions.

**Teaching Materials/Literature/Media/Technical Requirements/Lab Equipment.**

- Communication software for collaboration work (for example, Microsoft Teams, Zoom)
- Communication technologies for online learning (for example, Big Blue Button)
- Software for presentation (Microsoft PowerPoint, Google Slides, CANVA)
- High-Speed Internet Connection
- Microphone, web camera, stream projector
- Hardware and software for the learning process (presentation materials, cooperation work, communication, JIRA)
- Learning Management System (Moodle)

**Tailoring & Educational Tracks (Practical, Entrepreneurial, Scientific).**

- Practical to practice work in a distributed team based on the scientific study
- Scientific to study the approaches and methods for creation and managing of a distributed team

### **Competence Assessment.**

- Written Exam - 10%
- Workshops - 90%

### **Curricula Integration.**

- Course characteristics: elective
- Course frequency: every year - summer/spring semester
- Course admittance prerequisites: none
- Skills trained in this course: theoretical, practical, and scientific skills and competences
- Course targets: Master's curricula in Informational Technology, Computer Science, Project management, Business Administration, Software Development, Digital Transformation, International Business

### **Quality Evaluation.**

The module evaluation is based on:

- Pilot teaching in the frame of the project;
- OpenCops' evaluation;
- Feedback from Users;
- Feedback in the frame of the Train-the-trainer learning implementation;
- On the base of the module implementation in the learning process;

### **Change History & Ownership.**

**Product Owner:** Olena Verenych (KNUCA)

**Team Members:** Tetiana Kapliienko (NU ZP), Olena Sharovara (KNUCA), Oleg Sachenko (WUNU); Abuzar Daneshpajouh (UPV/EHU)

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## 2 Introduction to the module

The informational technologies' growth and development are the basis of the new world's appearance around us. We live in a virtual digital world. The new technologies provide us with opportunities of receiving new products and services that were not available in the physical world. We started a non-stop journey in the virtual world.

This world opens new opportunities and creates new challenges. If our competencies are suitable, we can work in any place even without having an "official office". We might be at any location in the world and at the same time working. This feature of the virtual environment breaks many borders around us, e.g. borders between countries or learning in specific universities in one country. However, It needs new competencies, and one of them is how to work in a new work environment which is called the digital environment.

- How to work in it?
- How to find responsible and goal-oriented people?
- How to create a trust and comfortable working atmosphere during performing work?
- How to organize work with a team which members are from the opposite sides of the Earth?
  - Do you work with people who have different working approaches based on cultural diversity?
  - How to avoid appearing conflicts, and manage the team for constructive work organization?
  - How to hire a competent employee who can be listening to other people and be in the process of decision creation?
  - How to present ourselves in the digital environment?

Those are only a little bit of part of questions and problems that come to mind when people start to work in the digital environment. Do you know the answers to these questions? If you know, you should be in our teachers' team, but if you don't know you can be our. The student, and we will try to open doors in this world to make you feel more comfortable and calm.

Our module was created for all people who want to know how to organize, manage and work in the online environment, be able to create suitable results, and receive a fruitful working team.

The module content concerns the organizational, psychological, social, cultural, and management aspects of working in the digital world. As well, we touch on the technical aspects of using popular software for communication. If you don't know how to manage the working area for involving all your employees in the working processes, we will present some useful techniques. And of course, the module touches the communication in the aspects of constructive communication and argumentation.

### 3 Module Description

#### 3.1 Overall Learning Outcomes

- **Technical Competence:** know and use software for the organization of the communication and work processes in online environment
- **Professional Competence:** manage the distributed team from the organization (hiring) to disbanding, motivation aspects, control and communication approaches, conflict avoiding, and leadership using
- **Global Competence:** use cultural diversity, social awareness, involvedness, pay attention to language differences

#### 3.2 Target Group Analysis

The student:

Needs:

- to gain knowledge, competence, and skills of management and collaboration work with workmates (team members) in on-line environmental based on the state-of-the-art informational-communication technologies in the digitalization era for set goals and successful projects implementation

Prerequisites and previous competencies:

- The students should have technological knowledge on technology (general), basic knowledge on office applications, and main principles of business communicative, Intercultural Communication, Social Competence, Communication, Psychology (are recommended)

Prospective Job Field:

- IT industry, Project management, Research, Business Administration, International Business, Outsourcing, Finance

#### 3.3 Competences & Learning Outcomes

Distributed Teams	Core course, obligatory		
	A student is able to...		
	Knowledge	Skills	Competence
	<ul style="list-style-type: none"> <li>➤ know the basic characteristics of a distributed team and it differs from offline teams;</li> <li>➤ know distributed team life-cycle;</li> <li>➤ know the organization and work in/with a</li> </ul>	<ul style="list-style-type: none"> <li>➤ organize a distributed team and create the effective work environmental;</li> <li>➤ choose appropriate software for a working environment.</li> </ul>	<ul style="list-style-type: none"> <li>➤ integrate knowledge and skills for an organization working environmental for a distributed team</li> </ul>

	distributed team; ➤ know how to define manage tasks and processes for distributed team members.		
<b>Elective course I</b>	<b>Hiring</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	➤ know the special aspects of hiring for distributed teams and what specialists should be added to the interview team.	➤ prepare the interview for evaluation of the soft skills and technical skills; ➤ conduct the interview.	➤ find employees and choose appropriate for the team based on the soft and technical skills.
<b>Elective course II</b>	<b>Using software for virtual communication</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	➤ know what special software is for distributed teams used; ➤ know the main pros and cons of the various software for distributed work.	➤ work in different software for distributed work.	➤ choose appropriate software based on tasks of the distributed team.
<b>Elective course III</b>	<b>Psychological type</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	➤ know what the psychological types are and how they influence the work.	➤ work with different psychological types; ➤ match distributed team members based on the people's trait of character.	➤ organize effective and constructive communication in the distributed team based on the team members' personalities.
<b>Elective course IV</b>	<b>Cultural diversity</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	➤ know how cultural diversity influences the work.	➤ work in cultural diversity and use intercultural communication.	➤ organize fruitful work in the intercultural environment.
<b>Elective course V</b>	<b>Time management</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	➤ know about what time management is and how it influences distributed work.	➤ use the special techniques and approaches for time management.	➤ organize personal fruitful work in a distributed team based on the tasks



			and deadlines.
<b>Elective course VI</b>	<b>Motivation aspects</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	<ul style="list-style-type: none"> <li>➤ know what motivation is, what types of motivation are;</li> <li>➤ know how motivation influences the personal productivity.</li> </ul>	<ul style="list-style-type: none"> <li>➤ use approaches for increasing the motivation.</li> </ul>	<ul style="list-style-type: none"> <li>➤ motivate employees and create the motivation system in the frame of the team</li> </ul>
<b>Elective course VII</b>	<b>Personal productivity</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	<ul style="list-style-type: none"> <li>➤ know about burnout and understand what the productivity time is.</li> </ul>	<ul style="list-style-type: none"> <li>➤ organize the productivity in and out of a team and organize him/her working space in distributed teams.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 'be in the resource'.</li> </ul>
<b>Elective course VIII</b>	<b>Constructive communication</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	<ul style="list-style-type: none"> <li>➤ know about what constructive communication is, principles of constructive communication, and the algorithm of the constructive confrontation.</li> </ul>	<ul style="list-style-type: none"> <li>➤ apply the algorithm of constructive communication for solving problems in the work.</li> </ul>	<ul style="list-style-type: none"> <li>➤ understand problems, that are appeared in the team, and find their solution based on the business communication.</li> </ul>
<b>Elective course IX</b>	<b>Facilitation</b>		
	A student is able to...		
	<b>Knowledge</b>	<b>Skills</b>	<b>Competence</b>
	<ul style="list-style-type: none"> <li>➤ know about facilitation and how to use it the distributed team.</li> </ul>	<ul style="list-style-type: none"> <li>➤ use the principles and approaches of facilitation.</li> </ul>	<ul style="list-style-type: none"> <li>➤ manage team cooperation using methods and approaches of facilitation.</li> </ul>

### 3.4 Content

*Main teaching idea — learning on the base of practice: a small practical example before learning material, the example discussion with the students, learning material supports the example, case-study/homework/practice*

*In any case in the future (after the quarantine will be finished) - the learning process has to be in online mode*

*It is planned that the theoretical material and practice (homework/case study) will be presented in the Didactic Concepts for Lectures for each module.*

## **Core courses (3 ECTS)**

### **0. Pre-testing for self-evaluation of knowledge**

Test, online, before learning start

### **I. Introduction**

1. Definition and context.
2. History of distributed teams.
3. Distributed teams – pros and cons.
4. Distributed Team's lifecycle model.

### **II. Preparation**

1. Hiring (base aspects).
2. Trust.
3. Using software for virtual communication (only Jira and Zoom, according to the survey's results)(Workshop)

### **III. Team development**

1. The team creation models
2. Distributed Team training
3. Reward system

### **IV. Launch**

1. Kick-off organization
2. Distributed jobs between the team members
3. Organizational management (main aspects)
4. Regulation of the communication (main aspects)
5. Topic presentation (Workshop)

### **V. Performance**

1. Leadership
2. Control management
3. Motivation aspects (some important approaches)
4. Conflicts in the distributed team

5. Key success factors of the Distributed Team vs Major challenges
6. Discussion (Workshop)

## **VI. Disbanding**

1. Recognition of achievements
2. Re-integration of team members

## **VII. Post-testing for self-evaluation of knowledge (Contact hours - 2, Self-study - 2 hours, Total - 4 hours)**

Test+ discussion results on the basis of the pre-test and post-test

## **Elective courses: Techniques, methods, and approaches for distributed team management**

### **Elective course I. Hiring (1 ECTS)**

- special aspects of hiring for distributed teams
- how to prepare for the interview (how to assess the soft skills and technical skills)
- how to conduct the interview

### **Elective course II. Using software for virtual communication (2 ECTS)**

- other software for the communication - pros and cons with practice

### **Elective course III. Psychological type (2 ECTS)**

- how psychological types of the team members influence the work
- what the psychological types are
- how to work with different psychological types

### **Elective course IV. Cultural diversity (2 ECTS)**

- how the cultural diversity influences the work
- how to work in a team with cultural diversity
- how to organize team members to understand and communicate in the culturally diverse environment

### **Elective course V. Time management (2 ECTS)**

- what time management is
- how the time management influence the work in the distributed teams
- the techniques and approaches for time management

### **Elective course VI. Motivation aspects (1 ECTS)**

- what the motivation is in distributed teams
- how the motivation influence the personal productivity
- approaches for increasing the motivation

**Elective course VII. Personal productivity (1 ECTS)**

- how to understand themselves
- how to organize your working space in distributed teams
- understanding the productivity time
- how to organize the productivity in and out a team
- how to 'be in the resource'

**Elective course VIII. Constructive communication (2 ECTS)**

- what the constructive communication is
- principles of the constructive communication
- algorithm of the constructive confrontation

**Elective course XI. Facilitation (2 ECTS)**

- what facilitation is
- the principles and approaches of facilitation
- how to use facilitation in distributed teams

### 3.5 Teaching & Learning Activity Plan

**A) Select Teaching/learning methods per competence**

- Theoretical knowledge - distance learning materials, self-study, virtual lectures, discussions, tests
- Practical skills - training, case-study, teamwork, presentations
- Scientific work - workshop, homework, essay

**B) Define didactic concept: e.g. choose from:**

- Distance learning materials
- Virtual lectures
- E-books and scientific articles
- Case-studies
- Homework
- Problem-based

- Presentation (reports)
- Workshop
- Challenge-based

### **C) Define an Activity Plan, e.g. semester schedule**

The core courses start at the beginning of the semester.

The electives can run parallel, and depending on the availability of labs, some electives can be concentrated in a block week.

**Core courses (Contact hours - 37, Self-study - 53 hours, Total - 90 hours):**

#### **Activity 1. Pre-test (2 h)**

Using the suggested test, the students assess their competencies (behavioral traits of character) for the future job (a project manager, freelancer, or workmate in the distributed team). The students will be divided into teams based on the test's results.

**Activity 2: Theory classes** of a distributed team base and the main aspects for a distributed team organization/management/control/disbanding **(58 h)**

The theory classes are complemented with virtual lectures and reading materials prepared by lecturers (distance learning materials, online tutorials, handbook, scientific articles)

**Activity 3. Workshop "Software tools for organization work in distributed teams"** on the base of the Homework (Team presentation) "Pros and cons of software tools for organization work in distributed teams" **(10 h)**

The students break up into teams, organize teamwork in one of the software tools and create a presentation with an assessment of the work in it

#### **Activity 4. Workshop «Kick-off meeting» (8 h)**

Each team group provides the kick-off meeting before a project starts based on the Topic knowledge. It presents what The students' knowledge and practice their skills. A Lecturer takes part and catch all pros and cons, and then discusses.

The students can choose a topic for the project themselves or topics can be suggested by a lecturer (project topics may differ for each university)

**Activity 5. Discussion «Key success factors of the Distributed Team vs Major challenge» (8 h)**

Each team presents how they used the topic's knowledge during project implementation

#### **Activity 6. Post-test (4 h)**

Using the suggested test, the students assess their competencies change under the module knowledge influence.

### ***Elective courses***

#### ***Elective course I. Hiring (1 ECTS) (Contact hours - 8, Self-study - 22 hours, Total - 30 hours)***

- **Activity 1:** Theory classes (20 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** 'Hiring team members' (10 h)

The students divide into teams. Each team prepares a proposal to find a future employee to work in a distributed team: a list of questions will be prepared that will be asked to the candidate for a more in-depth study of whether he is suitable for work in a distributed team. The results will be presented in the workshop and discussed with all the students.

#### **Elective course II. Using software for virtual communication (2 ECTS)**

- **Activity 1:** Theory classes (30 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** 'Pros and cons different software' (30 h)

The students break up into teams, using software and organize teamwork in one of the software tools and create a presentation with an assessment of the work in it

#### **Elective course III. Psychological type (2 ECTS)**

- **Activity 1:** Theory classes (40 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Case-study** 'Discussion practical situation' (20 h)

Some case-studies situations are prepared, and the students should describe them from the psychological type's point of view

#### **Elective course IV. Cultural diversity (2 ECTS)**

- **Activity 1:** Theory classes (40 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** (team presentation about cultural diversity — pros and cons) (20 h)

The students prepare information about cultural diversity based on themselves (for international groups) or articles/papers/open sources (for the students from the same culture)

#### **Elective course V. Time management (2 ECTS)**

- **Activity 1:** Theory classes (40 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** (Personal presentation of the use of some time management techniques) (20 h)

The students should use some time management techniques in their life and present the results in the class. A small discussion about the pros and cons techniques and discuss the field of the implementation.

#### **Elective course VI. Motivation aspects (1 ECTS)**

- **Activity 1:** Theory classes (10 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** (How to motivate employees) (20 h)

Based on the theoretical classes The students should create the motivation system for employees. The results will be presented in the workshop and discussed with a lecture and other Students.

#### **Elective course VII. Personal productivity (1 ECTS)**

- **Activity 1:** Theory classes (15 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.

- **Activity 2: Discussion** (My personal productivity: what I know about me) (15 h)

Discussion with the students about personal productivity, what from the theoretical classes were new, what can be used, their opinion, etc.

An alternative offer is the course "Personal Productivity, Time Management and Prioritization" from Coursera (<https://www.coursera.org/learn/personal-productivity-time-management-and-prioritization>).

### **Elective course VIII. Constructive communication (2 ECTS)**

- **Activity 1:** Theory classes (20 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshop** 'Constructive communication and argumentation' (40 h)

A lecturer prepares the non-constructive communication practical situation. The students should describe what a problem is and what approaches should be used for solution non-constructive communication.

- **Alternative for Activity 2. Discussion club** (40 h)

A lecturer prepares a problem topic for discussion. The students divide into two teams. The first team should prepare argumentation for support/disproof of the topic. Another team should assess the argumentation and decision making about with arguments agreement or rejection.

### **Elective course IX. Facilitation (2 ECTS)**

- **Activity 1:** Theory classes (20 h)
  - The theory classes are complemented with distance learning materials (knowledge clips, reading materials).
  - Homework: reading selected papers.
- **Activity 2: Workshops** 'How to be a facilitator of the meetings' (40 h)

## **3.6 Teaching & Learning Resources**

- Communication software for collaboration work (for example, Microsoft Teams, Zoom)
- Communication technologies for online learning (for example, Big Blue Button)
- Software for presentation (Microsoft PowerPoint), Google Slides, CANVA
- High-Speed Internet Connection
- Microphone, web camera, stream projector



- Hardware and software for the learning process (presentation materials, cooperation work, communication, JIRA)
- Learning Management System (Moodle)

### 3.7 Tailoring & Educational Tracks

Educational Tracks:

- students: take the core course and 1-2 electives (it depends on the educational approach at the university)

### 3.8 Assessment Methods

Assessment, Self-Assessment, Peer-Assessment

FORM	%	REMARK
Exam	20	Based on theory classes
Team presentation 1 for software using (activity 3)	20	
Teamwork 1 for project kick-off simulation (activity 4)	30	Project kick-off presentation
Team presentation 2 for performance management (activity 5)	30	Project implementation

### 3.9 Curricula Integration

The module can be integrated into the Master's programs as an elective module (core course) (for example, the Project Management Curricula, Informational Technologies Curricula, Digital Transformation curricula, etc.). Moreover, the elective courses can be integrated into other curricula as additional topics or as curricula extensions.

The module will be imparted by professors from any partner's university using the handbook and after the train-the-trainers module teaching in the frame of the project.

KNUCA has implemented the module in the Master's curricula "Computer Science. Project Management" (as an elective course, 4 ECTS, Ukrainian) in the second semester for the students who took the Master's curricula "Computer Science. Project Management" from 2020-2021 academic year.

According to the project results and based on the university's requirements for the elective courses, the Master's curricula "Computer Science. Project Management" was updated. This course "Distributed teams" is implemented into the curricula as an elective course, 6 ECTS, English, starting from the 2020-2021 academic year.

### 3.10 Quality Assurance - Evaluation

#### 3.10.1 Quality assurance

The pilot teaching is planned in the frame of the project. Developed the module's parts (topics, case studies, practices) are used in a pilot teaching, evaluated, and then – based on the experiences and feedback during delivery – it is adapted or even changed in defined parts. Pilot teaching allows evaluating some topics or issues because conducting "full" learning is not planned during the pilot teaching.

*Frequency: It is defined by the project description.*

#### 3.10.2 Evaluation

In the frame of the project, the Quality Plan will be created. This plan aims at the creation criteria for quality evaluation of all project deliverables. Additional performance indicators for the module development and surveys amongst project participants will add further information.

*Frequency: during the project implementation*

#### 3.10.3 Feedback from students

This quality assurance can be divided into two points:

1. feedback in the frame of the pilot teaching. Each pilot teaching session will include the evaluation survey that will be mandatory for all the students. The survey will evaluate different aspects: the learning process, organization, learning materials, practices, and case studies. All data from the survey will be collected and processed. The result will indicate problems (mistakes, possibilities ...) for changing, improving, and adaptations. *Frequency: during the project implementation, it is defined by the project description.*
2. feedback in the frame of the university's learning. A survey will be created for receiving the complex evaluation of all aspects of the module during the learning process. KNUCA has the possibility of receiving this evaluation from the full-time students and from the part-time students whose requirements for the knowledge, skills, and competencies are higher because their solution about entering the university is based on a clear understanding of what they need to know and for what professional goals. *Frequency: for each learning group.*

### **3.10.4 Feedback in the frame of the Train-the-trainer learning implementation**

The module train-the-trainer is planned in the project. The module aims to prepare lecturers from the OpenCops community to use each module learning material during the learning process in their universities. Presentation of the learning materials and learning approach is a chance to receive the lecturers' feedback. Moreover, it is planned to create the module handbook where the teaching approach and the case studies, practices, and discussions will be described from the lecturers' point of view.

*Frequency: it is defined by the module "Train-the-Trainer" learning schedule according to the project description.*

### **3.10.5 State-of-the-art research articles**

The learning materials will be improved using state-of-the-art studies that reflect the module's topics concerning. Sources of the studies' results are the professional magazines, conferences' proceedings, the results that are published in famous newspapers.

*Frequency: during the module creation and pilot teaching, and also all-time while the module will be included in the curriculum.*

### **3.10.6 Survey for professionals**

A survey for professionals will be created. It can be used as a support or correction of the module content before the learning materials creation. It will be in a google-form. The LinkedIn network will be used for dissemination. The survey is two-staged. The first stage with about 10 questions about problems during working in a distributed team. The second stage will be based on the results of the first stage. Three or four main problems will be chosen, and then they will be used in a short survey with a line of smile reaction for their evaluation.

*Frequency: one-time after the module specification creation and before the module learning materials creation.*

## 4 Syllabus/Module Handbook

<b>Distributed Teams (MOD-M04)</b>					
<b>Module Owner</b>	<b>Workload</b>	<b>Credits</b>	<b>Semester</b>	<b>Frequency</b>	<b>Duration</b>
P05	90 h - 240 h, Foreseen 25-30 hours /c redit	3 core ECTS from min 1*1 ECTS electives till max 2*2 ECTS electives	1 / 2	<i>summer/spring semester</i>	1 Semester
<b>1</b>	<b>Course Title</b>  Distributed Teams	<b>Contact hours</b>  min 2 weeks, 15 hours per week  max 5 weeks, 15 hours per week	<b>Self-Study</b>  min 53 h  max 141 h	<b>Planned Group Size</b>  15-25 students	
<b>2</b>	<b>Course Description</b>  The digital transformation is to a relevant extent a change process with a huge impact on organizations, processes, business models, the socio-economic environment, and finally the affected hum beings. Managing digital change means doing change management in a very specific context by implementing change projects. The module intends to give The students a scientific insight into the relevant underlying mechanisms of the digital change process.				
<b>3</b>	<b>Course Structure</b>  <b>0.Pre-testing</b> <b>I. Introduction</b> <ol style="list-style-type: none"> <li>1. Definition and context.</li> <li>2. History of distributed teams.</li> <li>3. Distributed teams – pros and cons.</li> <li>4. Distributed Team’s lifecycle model.</li> </ol> <b>LIFECYCLE</b> <b>II.Preparation</b> <ol style="list-style-type: none"> <li>1. Hiring (base aspects).</li> <li>2. Trust.</li> <li>3. Using software for virtual communication (only Jira and Zoom, according to the survey's results)(Workshop)</li> </ol> <b>III.Team development</b> <ol style="list-style-type: none"> <li>1. The team creation models</li> <li>2. Distributed Team training</li> <li>3. Reward system</li> </ol> <b>IV. Launch</b> <ol style="list-style-type: none"> <li>1. Kick-off organization</li> <li>2. Distributed jobs between the team members</li> <li>3. Organizational management (main aspects)</li> <li>4. Regulation of the communication (main aspects)</li> <li>5. Topic presentation (Workshop)</li> </ol>				

<p><b>V. Performance</b></p> <ol style="list-style-type: none"><li>1. Leadership</li><li>2. Control management</li><li>3. Motivation aspects (some important approaches)</li><li>4. Conflicts in the distributed team</li><li>5. Key success factors of the Distributed Team vs Major challenges</li><li>6. Discussion (Workshop)</li></ol> <p><b>VI. Disbanding</b></p> <ol style="list-style-type: none"><li>1. Recognition of achievements</li><li>2. Re-integration of team members</li></ol> <p><b>VII. Post-testing for self-evaluation of knowledge</b></p> <p><b>Elective courses:</b></p> <p><b>Elective course I. Hiring (1 ECTS)</b></p> <ul style="list-style-type: none"><li>• special aspects of hiring for distributed teams</li><li>• how to prepare for the interview (how to assess the soft skills and technical skills)</li><li>• how to conduct the interview</li></ul> <p><b>Elective course II. Using software for virtual communication (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• other software for the communication - pros and cons with practice</li></ul> <p><b>Elective course III. Psychological type (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• how psychological types of the team members influence the work</li><li>• what the psychological types are</li><li>• how to work with different psychological types</li></ul> <p><b>Elective course IV. Cultural diversity (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• how the cultural diversity influences the work</li><li>• how to work in a team with cultural diversity</li><li>• how to organize team members to understand and communicate in the culturally diverse environment</li></ul> <p><b>Elective course V. Time management (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• what time management is</li><li>• how the time management influence the work in the distributed teams</li><li>• the techniques and approaches for time management</li></ul> <p><b>Elective course VI. Motivation aspects (1 ECTS)</b></p> <ul style="list-style-type: none"><li>• what the motivation is in distributed teams</li><li>• how the motivation influence the personal productivity</li><li>• approaches for increasing the motivation</li></ul> <p><b>Elective course VII. Personal productivity (1 ECTS)</b></p> <ul style="list-style-type: none"><li>• how to understand themselves</li><li>• how to organize your working space in distributed teams</li><li>• understanding the productivity time</li><li>• how to organize the productivity in and out a team</li><li>• how to be in the resource</li></ul> <p><b>Elective course VIII. Constructive communication (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• what the constructive communication is</li><li>• principles of the constructive communication</li><li>• algorithm of the constructive confrontation</li></ul> <p><b>Elective course IX. Facilitation (2 ECTS)</b></p> <ul style="list-style-type: none"><li>• what facilitation is</li><li>• the principles and approaches of facilitation</li><li>• how to use facilitation in distributed teams</li></ul>
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4	<p><b>Application Focus</b></p> <p>The students will make all tasks and a case study in distributed teams. The students will be guided through received knowledge implementation during the module's learning process, where they create and manage their groups for the module's tasks solutions.</p>
5	<p><b>Scientific</b> <span style="float: right;"><b>Focus</b></span></p> <p>Literature review and analysis. Deductive own research based on the literature. Scientific reflection and discussion in the teams. Presentation of their research results in the frame of the international conferences (for example, International Conferences in Bilbao (in February), in Kyiv (in May), and in Dortmund (in June)).</p>
6	<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>• ECTS: 3-7</li> <li>• Hours of study in total: 90 - 210</li> <li>• Weekly hours per semester: 2-5             <ul style="list-style-type: none"> <li>- Contact hours: 37 - 77</li> <li>- Self-Study hours: 53 - 141</li> </ul> </li> <li>• Course characteristics: elective</li> <li>• Course Frequency: every year - summer/spring semester</li> <li>• Maximal capacity: 25 students</li> <li>• Course admittance prerequisites: none</li> <li>• Skills trained in this course: theoretical, practical, and scientific skills and competences</li> <li>• Assessment of this course: Test - 20%, Workshops - 80%</li> <li>• Teaching staff: teachers from Open Community of Practice</li> </ul>
7	<p><b>Learning outcomes</b></p> <p><b>Distributed teams (Core course, obligatory)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>• The student will know the basic characteristics of a distributed team and it differs from offline teams</li> <li>• The student will know distributed team life cycle</li> <li>• The student will receive knowledge of the organization and working in/with a distributed team</li> <li>• The student will receive knowledge of how to define manage tasks and processes for distributed team members</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>• The student will be able to organize a distributed team and create the effective work environmental</li> <li>• The student will be able to choose appropriate software for a working environment</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>• The student is able to integrate knowledge and skills for an organization working environmental for a distributed team</li> </ul> <p><b>Elective course I. Hiring (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>• The student will know the special aspects of hiring for distributed teams and what specialists should be added to the interview team</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>• The student will be able to prepare the interview for evaluation of the soft skills and technical skills</li> </ul>

<ul style="list-style-type: none"><li>• The student will be able to conduct the interview</li></ul> <p><i>General competence</i></p> <ul style="list-style-type: none"><li>• The student can find employees and choose appropriate for the team based on the soft and technical skills</li></ul> <p><b>Elective course II. Using software for virtual communication (Technical course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"><li>• The student will know what special software is for distributed teams used</li><li>• The student will know the main pros and cons of the various software for distributed work</li></ul> <p><i>Skills</i></p> <ul style="list-style-type: none"><li>• The student will be able to work in different software for distributed work</li></ul> <p><i>General competence</i></p> <ul style="list-style-type: none"><li>• The student will be able to choose appropriate software based on tasks of the distributed team</li></ul> <p><b>Elective course III. Psychological type (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"><li>• The student will know what the psychological types are and how they influence the work</li></ul> <p><i>Skills</i></p> <ul style="list-style-type: none"><li>• The student will be able to work with different psychological types</li><li>• The student will be able to match distributed team members based on the people's trait of character</li></ul> <p><i>General competence</i></p> <ul style="list-style-type: none"><li>• The student will be able to organize effective and constructive communication in the distributed team based on the team members' personalities</li></ul> <p><b>Elective course IV. Cultural diversity (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"><li>• The student will know how cultural diversity influences the work</li></ul> <p><i>Skills</i></p> <ul style="list-style-type: none"><li>• The student will be able to work in cultural diversity and use intercultural communication</li></ul> <p><i>General competence</i></p> <ul style="list-style-type: none"><li>• The student will be able to organize fruitful work in the intercultural environment</li></ul> <p><b>Elective course V. Time management (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"><li>• The student will know about what time management is and how it influences distributed work</li></ul> <p><i>Skills</i></p> <ul style="list-style-type: none"><li>• The student will be able to use the special techniques and approaches for time management</li></ul> <p><i>General competence</i></p> <ul style="list-style-type: none"><li>• The student will be able to organize personal fruitful work in a distributed team based on the tasks and deadlines</li></ul> <p><b>Elective course VI. Motivation aspects (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"><li>• The student will know what motivation is, what types of motivation are</li><li>• The student will be known how motivation influences the personal productivity</li></ul> <p><i>Skills</i></p>
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<ul style="list-style-type: none"> <li>• The student will be able to use approaches for increasing the motivation</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>• The student will be able to motivate the members of a distributed team and create the motivation system in the frame of the team</li> </ul> <p><b>Elective course VII. Personal productivity (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>• The student will know about burnout and understand what the productivity time is</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>• The student will be able to organize the productivity in and out of a team and organize him/her working space in distributed teams</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>• The student will be able to 'be in the resource'</li> </ul> <p><b>Elective course VIII. Constructive communication (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>• The student will know about what constructive communication is, principles of constructive communication, and the algorithm of the constructive confrontation</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>• The student will be able to apply the algorithm of constructive communication for solving problems in the work</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>• The student will be able to understand problems, that appeared in the team, and find their solution based on the business communication</li> </ul> <p><b>Elective course IX. Facilitation (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>• The student will know about facilitation and how to use it the distributed team</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>• The student will be able to use the principles and approaches of facilitation</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>• The student will be able to manage team cooperation using methods and approaches of facilitation</li> </ul> <p><b>Distributed teams (Core course, obligatory)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>○ The student will know the basic characteristics of a distributed team and it differs from offline teams</li> <li>○ The student will know distributed team life cycle</li> <li>○ The student will receive knowledge of the organization and working in/with a distributed team</li> <li>○ The student will receive knowledge of how to define manage tasks and processes for distributed team members</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to organize a distributed team and create the effective work environmental</li> <li>○ The student will be able to choose appropriate software for a working environment</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>○ The student is able to integrate knowledge and skills for an organization working environmental for a distributed team</li> </ul> <p><b>Elective course I. Hiring (Managerial course: elective)</b></p> <p><i>Knowledge</i></p>
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	<p><b>Elective course VI. Motivation aspects (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>○ The student will know what motivation is, what types of motivation are</li> <li>○ The student will know how motivation influences the personal productivity</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to use approaches for increasing the motivation</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to motivate employees and create the motivation system in the frame of the team</li> </ul> <p><b>Elective course VII. Personal productivity (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>○ The student will know about burnout and understand what the productivity time is</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to organize the productivity in and out of a team and organize him/her working space in distributed teams</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to 'be in the resource'</li> </ul> <p><b>Elective course VIII. Constructive communication (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>○ The student will know about what constructive communication is, principles of constructive communication, and the algorithm of the constructive confrontation</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to apply the algorithm of constructive communication for solving problems in the work</li> </ul> <p><i>General competence</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to understand problems, that appeared in the team, and find their solution based on the business communication</li> </ul> <p><b>Elective course IX. Facilitation (Managerial course: elective)</b></p> <p><i>Knowledge</i></p> <ul style="list-style-type: none"> <li>○ The student will know about facilitation and how to use it the distributed team</li> </ul> <p><i>Skills</i></p> <ul style="list-style-type: none"> <li>○ The student will be able to use the principles and approaches of facilitation</li> </ul> <p><i>General competence</i></p> <p>The student will be able to manage team cooperation using methods and approaches of facilitation</p>
<p><b>8</b></p>	<p><b>Teaching and training methods</b></p> <ul style="list-style-type: none"> <li>• lectures introducing concepts, methods, and tools; own literature reading</li> <li>• group work in the case study to practice concepts and methods, to develop skills, and to work on case studies</li> <li>• presentations to communicate results and do a scientific discussion and reflection</li> </ul>
<p><b>9</b></p>	<p><b>Curricula Integration</b></p> <p>KNUCA: The master's curricula "Project Management", Speciality "Computer Science" from the 2024–2025 academic year (as a core course). This module was piloted in the same curriculum as an elective module during 4 academic years from the 2020–2021 academic year.</p>

**10** **References**

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