OIR

**Open innovative resources
for distance learning**

Erasmus+
Zmienia życie, otwiera umysły

Guide of the lectures, podcast and didactic materials of the OIR project (*Open Innovative Resources for distance learning*) generated by the University of Oviedo team

Spanish title: Guía de las lecciones, podcast y materiales didácticos del proyecto OIR (Recursos abiertos innovadores para aprendizaje a distancia) realizados por el equipo de la Universidad de Oviedo

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1. INFORMATION ON THE DOCUMENT

1.1. Needs analysis

The COVID-19 pandemic situation has represented an important educational challenge, both when addressing the situation of emergency and when verifying the competence problems of pre- and in-service teachers to manage digital educational technologies, develop teamwork through distance methods and generate teaching resources and scenarios in which these teaching-learning processes are developed in an inclusive way, facilitating learning for all students.

The Erasmus+KA226 OIR project (*Open Innovative Resources for distance learning*) stems from reflection on this situation, and aims to strengthen the capacity of universities to provide high-quality digital education favourable to social inclusion, and in particular, to improve ways and methods of teacher education in response to these needs in hybrid and distance learning environments.

The University of Oviedo has worked in a multidisciplinary way from an inclusive perspective. The key issues addressed in the design of these didactic resources in teacher training are presented here, derived from the analysis and reflection on the educational needs detected and general schemes to achieve inclusiveness and accessibility in online education or blended learning developed in hybrid environments: implementation of Universal Learning Design (ULD), visual thinking, the approach to virtual educational contexts, new technological tools and their application in these learning environments.

1.2. Addresses of the didactic products

Pre-school, Primary and Secondary pre-service, in-service and university teachers.

2. INTELLECTUAL WORK RESULTS

2.1. On-line lectures

The University of Oviedo team has generated 8 lectures about implementation of Universal Learning Design (ULD), technology and learning in virtual educational contexts, interactive teaching sessions, video generation, use of visual thinking and collaborative learning in hybrid and online learning context. All lectures are available in the YouTube Channel @OIRSpain: https://www.youtube.com/@oirspain

Lecture 1

Title: The Universal Design applied to university instruction and the Universal Design for Learning in teacher training

Spanish title (original): El Diseño Universal aplicado a la enseñanza universitaria y el Diseño Universal para el Aprendizaje en la formación del profesorado

Author: Mónica Herrero

Language. Spanish

Description: Teachers need to know good practices on how to apply this approach in an inclusive education classroom, when applying methodologies and when designing didactic activities. The general objective of this lesson is to train students in their initial training stage and teachers to acquire and develop the necessary skills to be able to implement DUA integration approach in the classroom. DUA approach is articulated in the following contents: 1) Knowing DUA origin, purpose, and key ideas; 2) Knowing University of Oviedo commitment as part of its Social Responsibility; 3) Knowing DUA and DUI principles and their relationship with the SDG 2030; 4) Knowing specific training opportunities and good practices.

Type: Video

File/link: https://youtu.be/QVKJRdbvsX4

Lecture 2

Title: Hinge strategy between types of knowledge: Visual Thinking

Spanish title (original): Estrategia bisagra entre tipos de conocimiento: el Pensamiento Visual

Author: Sué Gutiérrez Berciano

Language: Spanish

Description: One of the latest trends in education is Visual Thinking. Like any other didactic strategy, it needs to be analyzed and to know to what extent it is new, as well as to recognize its functionality in the teaching-learning process. The main purpose is to familiarize the participants with the different Visual Thinking strategies. In addition, the participants will obtain the ability to use it in the educational process, both at school and in the university, as well as in self-improvement and self-education. Topics of the lecture are: 1) The complexity of the cognitive process and construction of knowledge. 2) The main cognitive theories and their parallelism with learning theories. 3) The linking of these learning theories and teaching strategies, such as visual thinking origin, evolution and development of Visual thinking as a didactic strategy. 4) The main didactic elements for its execution in the classroom.

Type: Video

File/link: https://youtu.be/RgjQ6-8qHoI

Lecture 3

Title: Visual thinking as a hinge between disciplinary knowledge and pedagogical knowledge

Spanish title (original): El pensamiento visual como bisagra entre el saber disciplinar y el saber pedagógico

Author: Sué Gutiérrez Berciano

Language: Spanish

Description: The main purpose is to familiarize the participants with the different Visual Thinking strategies. In addition, the participants will obtain the ability to use it in the educational process, both at school and university, as well as in their professional field. The main objective of the lesson is to show how to implement an innovative methodology in the classroom through audiovisuals that allow the acquisition of learning to be improved in a more significant way. It is

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pursued that they have a comprehensive understanding (theoretical-practical) of the Visual Thinking strategy.

The main purpose is to familiarize the participants with different Visual Thinking strategies. In addition, participants will be able to use it in the educational process, both at school and university, as well as in the teaching professional field. Besides, this material shows how to implement an innovative methodology in the classroom through audiovisuals that allow the acquisition of an improved learning in a more significant way.

Type: Video

File/link: https://youtu.be/RgjQ6-8qHoI

Lecture 4

Title: How do we face virtual educational contexts?: technology and active learning. Part 1.

Spanish title (original): ¿Cómo nos enfrentamos a los contextos educativos virtuales?: tecnología y aprendizaje activo. Parte 1

Author: Nuria Hernández Nanclares

Language. Spanish

Description: Online teaching, the social distance required and the massive use of technology are transforming educational contexts. Therefore, it is necessary to explore a conceptual framework that guides the instructional design. The future will be hybrid, with a combination of where, when and with whom students and teachers will be. This implies a complete redesign of teaching and learning. To begin with, terms such as remote, online, virtual, distance, synchrony, face to face, on campus must be clearly understood in their various meanings. Educational institutions, administrators, teachers, and students are facing a huge range of possibilities related to planning, teaching, and learning processes. The objective of this lesson is to better discuss the different scenarios in which we may find ourselves in a future blended teaching and propose technological tools and active learning methodologies to encourage and support students and teachers´ engagement.

Type: Video

File/link: https://youtu.be/V63D6aUL1Z4

Lecture 5

Title: How do we face virtual educational contexts?: technology and active learning. Part 2.

Spanish title (original): ¿Cómo nos enfrentamos a los contextos educativos virtuales?: tecnología y aprendizaje activo. Parte 2

Author: Nuria Hernández Nanclares

Language: Spanish

Description: Future will be hybrid. This implies a complete redesigning of teaching and learning processes. This lesson offers tools for the analysis of the instructional design currently carried out with students.

Type: Video

File/link: https://youtu.be/V63D6aUL1Z4

Lecture 6

Title: Using Genially to promote online environmental education

Spanish title (original): Usando Genially para potenciar la educación ambiental en línea

Author: Antonio Torralba-Burrial

Language: Spanish

Description: Switching from face-to-face environmental education, with a strong sense of place, direct connection with nature and human interrelationship, to a (fully or partially) online context represents a significant challenge. However, there are technological tools and didactic designs that allow us to get closer virtually, and accompany each other in the classroom, home or green space, in an authentic blended learning (b-learning), mobile (m-learning) and ubiquitous (u-learning). This lesson is dedicated to the use of the Genially interactive presentation platform in online education.

Type: Video

File/link: https://youtu.be/X31PFlhrkak

Lecture 7

Title: Digital tools and suggestions for the elaboration of didactic videos

Spanish title (original): Herramientas digitales y sugerencias para la elaboración de videos didácticos

Author: Diana Díaz González

Language: Spanish

Description: The definition of didactic objectives and methodological guidelines for the appropriate use of educational videos, is of particular interest at the beginning of this lesson of the European OIR project. The consideration of different types of videos and strategies to facilitate the accessibility of resources is discussed. In this lesson, some assessment strategies are proposed to evaluate didactic videos.

Type: Video

File/link: https://youtu.be/bk6PMbopHgg

Lecture 8

Title: Implementation of cooperative learning for distance teaching contexts

Spanish title (original): Implementación del aprendizaje cooperativo en contextos de enseñanza no presencial

Author: Diana Díaz González

Language: Spanish

Description: In this lesson, the necessary theoretical framework is reviewed as a basis for the adaptation of proposals and selection of tools, which facilitate cooperative work outside the classroom. Following previous authors, a structured implementation of the methodology is proposed in three phases, with the adaptation of different dynamics and cooperative structures or techniques. For this purpose, some suggestions for cooperative music activities outside the classroom are proposed.

Type: Video

File/link: https://youtu.be/EsgpIZNfS2k

2.2. Podcast

The University of Oviedo team has generated 8 podcast about different topics: students-generated video project, educational videos production according to UDL principles, the use of interviews and discussion groups as assessment tools, the use of visual thinking, accessibility in teacher training blended learning environments, citizenship science in science teaching-learning, and DUA implementation in early childhood and primary education.

All podcasts are available in the YouTube Channel @OIRSpain:

https://www.youtube.com/@oirspain

Podcast 1

Title: Didactictac tv. A TV channel in the Faculty of Teacher Training

Spanish title (original): Didactictac TV. Un canal de TV en la Facultad de Formación del Profesorado

Author: Marta García-Sampedro

Language. Spanish

Description: Didactictac tv is an online tv channel started and implemented at the Teacher Training and Education Faculty, University of Oviedo.The aim of the podcast is to describe how this online tv has been implemented in the Education Faculty and make students reflect how a similar channel could be implemend in any school.

Type: Video

File/link: https://youtu.be/gLkP8jwuizU

Podcast 2

Title: The interview and the focus groups as assessment tools

Spanish title (original): La entrevista y los grupos de discusión como herramienta de evaluación

Author: Marta García-Sampedro

Language. Spanish

Description: Students need to know different assessment tools in order to evaluate participation, perception and attitudes during the implementation of innovative practices. The objectives of this

podcast are providing information about the interview and the focus groups as qualitative tools to assess people´s perceptions, explaining interview and focus groups´ phases and characteristics.

Type: Video

File/link: https://youtu.be/AYbkRy2W-QU

Podcast 3

Title: My experience with visual thinking. Discussion with preservice teachers

Spanish title (original): Mi experiencia con el pensamiento visual. Discusión con el alumnado de magisterio

Author: Sué Gutiérrez Berciano

Language. Spanish

Description: This podcast offers clues to implement Visual Thinking in a Higher Education classroom and explains how previous students have experienced it.

Type: Video

File/link: https://youtu.be/6deAIEdRYmw

Podcast 4

Title: Enhancing accessibility in blended learning environments for teacher training

Spanish title (original): Potenciando la accesibilidad en entornos de aprendizaje mixto para la formación de docentes

Author: Antonio Torralba-Burrial

Language. Spanish

Description: This podcast is about the use of methodologies easily accessible in distance education. Specifically, it is dedicated to promoting accessibility in blended learning (b-learning) and online (e-learning) environments. Its use is exemplified in science didactics, especially in experimental science didactics, although it is also applicable to other subjects and environments. Therefore, the specific objectives of the podcast would be: 1. Promoting accessibility in the virtual classroom. 2. Showing examples on how to improve the accessibility of the Virtual Campus in the field of Didactics of Experimental Sciences.

Type: Video

File/link: https://youtu.be/YftgN3Foh3E

Podcast 5

Title: Teaching and learning science using online citizen science tools

Spanish title (original): Enseñanza y aprendizaje de la ciencia utilizando herramientas de ciencia ciudadana en línea

Author: Antonio Torralba-Burrial

Language. Spanish

Description: This podcast pretends to explain the key concepts and foundations of school citizenship science, exemplifying a series of projects that have been implemented in recent years. This podcast is about the use of easy access technological methodologies for distance education. It is specifically dedicated to the use of citizenship science in online (e-learning) and hybrid (b-learning) science education.

Type: Video

File/link: https://youtu.be/YmCtht2JvKA

Podcast 6

Title: Music education in times of pandemic. An investigation based on the experience of Spanish primary school teachers

Spanish title (original): La educación musical en tiempos de pandemia. Una investigación a partir de la experiencia de profesores de primaria españoles

Author: Diana Díaz González

Language. Spanish

Description: The health crisis caused by Covid-19 produced significant challenges for Primary Education teachers during confinement. The schools had to adapt their organization for remote teaching. In addition, teachers had to review their methodological strategies and incorporating new technologies into learning from home. Taking into account these new contexts, it is necessary to investigate about the teaching practices and the use of new technologies in the different school subjects. These issues connect directly with the lines of the European OIR project. In this podcast we collect the main results of quantitative and qualitative research, based

on a non-probabilistic sample of more than five hundred music teachers from all over Spain. In this work we wanted to delve into the digital tools and resources used by music education teachers, identifying practices for music teaching in Primary Education during the pandemic.

Type: Video

File/link: https://youtu.be/2ue_i89lvp0

Podcast 7

Title: Production of educational videos for the first dimension of the UDL

Spanish title (original): Realización de vídeos educativos para la primera dimensión del DUA

Author: Diana Díaz González

Language. Spanish

Description: In this podcast we focus on the motivation dimension of Universal Learning Design (DUA), which refers to affective networks to encourage students´ engagement in the educational processes. For this UDL dimension, it is believed that it may be useful to design short educational and inspiring videos, which will be the subject of the second part of this podcast. These issues connect directly with the lines of OIR project.

Type: Video

File/link: https://youtu.be/6FajE3rDgwA

Podcast 8

Title: Interview with an expert professional: the Principal Águeda Almaraz shares her experience in the implementation of UDL in her school (Early Childhood Education and Primary Education levels

Spanish title (original): Entrevista con profesional experta: la directora Águeda Almaraz, (centro educativo de Infantil y Primaria) comparte su experiencia en la implantación del DUA

Author: Mónica Herrero y Nuria Hernández Nanclares

Language. Spanish

Description: From the teacher training perspective, it is necessary to train Primary pre-service teachers on DUA approach, since they must know and implement it in their future professional performance in the classroom. To respond to this need, this educational product is designed and

presented in podcast format with its associated educational resources. Through an interview to an experienced school headmaster, students become aware of the implementation of DUA approach in Early Childhood and Primary Education.

Type: Video

File/link: https://youtu.be/a0l3mXaE3oY

2.3. Teaching materials

Educational materials (kits of worksheets, exercices, task, diagrams, charts, figures...) was generated to each lecture and podcast, giving the possibility of using variuos konwledge perception channels by adating to the needs of learnes.

Title: The Universal Design applied to university instruction and the Universal Design for Learning in teacher training

Spanish title (original): El Diseño Universal aplicado a la enseñanza universitaria y el Diseño Universal para el Aprendizaje en la formación del profesorado

Author: Mónica Herrero

Language. Spanish

Description: Teachers need to know good practices on how to apply the Universal Design for Learning approach in the classroom. This document constitutes a necessary complement for the lesson of the same name to deepen in the field acquiring and developing essential skills for DUA implementation. This document provides teaching materials (exercises, tasks, links to online teaching resources and web pages) organized for learning about Universal Design applied to university teaching and the integration of Universal Design for Learning in teacher training. It also includes relevant bibliography on the subject.

Type: Pdf document.

File/link: L1 UDL in Teacher training MH.pdf

Title: Hinge strategy between types of knowledge: Visual Thinking

Spanish title: Estrategia bisagra entre tipos de conocimiento: el Pensamiento Visual

Author: Sué Gutiérrez Berciano

Language: Spanish / English

Description: This document constitutes a complement for the lesson of the same name, so that the topic can be deepened, acquiring and developing the skills that allow the implementation of Visual Thinking in education. This document provides teaching materials (worksheets, exercises, homework, links to online teaching resources and web pages) organized to familiarize

participants with the different Visual Thinking strategies and their use in the educational process at different educational stages.

Type: Pdf document.

File/link: English version: L2 Hinge strategy between types of knowledge english – SGB.pdf

Spanish version: L2 Hinge strategy Visual Thinking – SGB.pdf

Title: Visual thinking as a hinge between disciplinary knowledge and pedagogical knowledge

Spanish title (original): El pensamiento visual como bisagra entre el saber disciplinar y el saber pedagógico

Author: Sué Gutiérrez Berciano

Language: Spanish

Description: This document constitutes the complement for the learning of the topic of the lesson of the same name, so that the subject can be deepened, becoming familiar with the strategies of Visual Thinking and using it in the educational process, implementing an innovative methodology in the classrooms for audiovisual means that allow to improve the acquisition of learning in a more significant way. This document provides teaching materials (worksheets, exercises, tasks, links to online teaching resources and web pages) organized so that students have a comprehensive (theoretical-practical) understanding of the Visual Thinking strategy.

Type: PDF document.

File/link: L3 Visual thinking as a hinge – SGB.pdf

Title: How do we face virtual educational contexts?: technology and active learning.

Spanish title (original): ¿Cómo nos enfrentamos a los contextos educativos virtuales?: tecnología y aprendizaje activo.

Author: Nuria Hernández Nanclares

Language. Spanish

Description: This document constitutes the complement for the learning of the subject exposed in the two lessons of the same name, so that future teachers can better understand the different blended scenarios and propose technology and active learning as the tools that will allow us to

encourage and support student engagement and participation. This document provides teaching materials (worksheets, exercises, homework, links to online teaching resources and web pages) that are organized to achieve scenarios understanding and associated current educational technological tools skills.

Type: Pdf document.

File/link: L4-5 face virtual educational contexts technology and active learning – NHN.pdf

Title: Using Genially to promote online environmental education

Spanish title (original): Usando Genially para potenciar la educación ambiental en línea

Author: Antonio Torralba-Burrial

Language: Spanish

Description: This document constitutes the complement for the topic exposed in the lesson of the same name, whose main goal is to let students understand more easily the use of Genially (application for interactive presentations), and how to use it to implement it in environmental education in online and hybrid educational environments. This document provides teaching materials (worksheets, exercises, tasks, figures and diagrams, examples, links to online teaching resources and web pages) organized to achieve this learning and to be able to implement it successfully in educational processes. Educational bibliography related to the topic is included.

Type: PDF document.

File/link: L6 Using Genially to promote online environmental education - ATB.pdf

Title: Digital tools and suggestions for the elaboration of didactic videos

Spanish title (original): Herramientas digitales y sugerencias para la elaboración de videos didácticos

Author: Diana Díaz González

Language: Spanish

Description: This document constitutes the complement for lesson of the same name. It is addressed to students to know the different types of videos and the strategies to facilitate the accessibility of these educational resources. This document provides teaching materials

(worksheets, exercises, tasks, figures and diagrams, examples, links to online teaching resources and web pages) organized to achieve this learning, learn about digital tools and issues to achieve accessibility of the audiovisual resources generated.

Type: PDF document.

File/link: L7 Digital tools & suggestions elaboration didactic videos – DD.pdf

Title: Implementation of cooperative learning for distance teaching contexts

Spanish title (original): Implementación del aprendizaje cooperativo en contextos de enseñanza no presencial

Author: Diana Díaz González

Language: Spanish

Description: This document constitutes the complement for subject exposed in the lesson of the same name, intended for pre-service and in-service teachers facilitate cooperative learning in distance education contexts. This document provides teaching materials (worksheets, exercises, tasks, figures and diagrams, examples, links to online teaching resources and web pages) organized to achieve this learning, exemplified in music education but suitable for implementation in other educational processes. subjects.

Type: PDF document.

File/link: L8 cooperative learning for distance teaching – DD.pdf

Title: Didactictac tv. A TV channel in the Faculty of Teacher Training

Spanish title (original): Didactictac TV. Un canal de TV en la Facultad de Formación del Profesorado

Author: Marta García-Sampedro

Language. English

Description: This document constitutes the complement for the podcast of the same name, intended for teachers being able to implement a YouTube-cased platform working as an online tv channel for a hypothetical school. This document provides teaching materials (tasks, exercises, links to online teaching resources and website of the Didactictac TV project and

associated channels) organized to achieve this learning. Educational bibliography related to the topic is included.

Type: pdf document.

File/link: P1 DIDACTICATC TV - MGS.pdf

Title: The interview and the focus groups as assessment tools

Spanish title (original): La entrevista y los grupos de discusión como herramienta de evaluación

Author: Marta García-Sampedro

Language. English

Description: This document constitutes the complement for the podcast of the same name, intended for future teachers to know different interview types and focus groups as qualitative tools to assess people's perceptions. This document provides teaching materials (tasks, links to online teaching resources) organized to achieve this learning. Educational bibliography related to the topic is included.

Type: pdf document.

File/link: P2 interview and the focus groups as assessment tools – MGS.pdf

Title: My experience with visual thinking. Discussion with preservice teachers

Spanish title (original): Mi experiencia con el pensamiento visual. Discusión con el alumnado de magisterio

Author: Sué Gutiérrez Berciano

Language. Spanish

Description: This document constitutes the complement for the podcast of the same name, intended for teachers to understand issues about visual thinking and its implementation in educational processes. This document provides teaching materials (tasks, exercises, links to online teaching resources and related bibliography) organized in sequence to achieve this learning.

Type: pdf document.

Description: This document constitutes the complement for the podcast of the same name, intended for teachers to understand issues about visual thinking and its implementation in

educational processes. This document provides teaching materials (tasks, exercises, links to online teaching resources and related bibliography) organized in sequence to achieve this learning.

Type: pdf document.

File/link: https://youtu.be/6deAIEdRYmw

Title: Enhancing accessibility in blended learning environments for teacher training

Spanish title (original): Potenciando la accesibilidad en entornos de aprendizaje mixto para la formación de docentes

Author: Antonio Torralba-Burrial & Mónica Herrero Vázquez

Language. Spanish

Description: This document constitutes the complement for the podcast of the same name, aimed at providing the accessibility of digital resources in online or mixed training. This document provides teaching materials (tasks, exercises, figures, diagrams, links to online teaching resources and related bibliography) organized from a general perspective and exemplified with actions in teaching subjects of experimental sciences in teacher training.

Type: pdf document.

File/link: P4 Enhancing accessibility in b-lended learning - ATB MHV.pdf

Title: Teaching and learning science using online citizen science tools

Spanish title (original): Enseñanza y aprendizaje de la ciencia utilizando herramientas de ciencia ciudadana en línea

Author: Antonio Torralba-Burrial

Language. Spanish

Description: This document constitutes a complement for the podcast of the same name. It is intended for pre-service and in-service teachers to know the principles of citizenship science, implemented school citizenship science projects and digital citizenship science tools that can be used in the implementation of citizenship science activities. This document provides teaching materials (tasks, exercises, figures, diagrams, links to online teaching resources and related bibliography) organized from a general perspective and exemplified mostly with school

educational interventions in experimental sciences and in their environmental aspect, although they are also incorporated examples and educational projects of the teaching of the didactics of social sciences and humanities.

Type: pdf document.

File/link: P5 citizen science tools – ATB.pdf

Title: Music education in times of pandemic. An investigation based on the experience of Spanish primary school teachers

Spanish title (original): La educación musical en tiempos de pandemia. Una investigación a partir de la experiencia de profesores de primaria españoles

Author: Diana Díaz González

Language. Spanish

Description: This document constitutes the complement for the podcast of the same name. It intends to describe the teaching practices and the use of new technologies, tools and digital resources used by music education teachers in Primary Education during the COVID-19 pandemic. This document provides teaching materials (tasks, exercises, figures, diagrams, links to online teaching resources and related bibliography) designed so that pre-service and in-service teachers understand the virtual educational interventions carried out.

Type: pdf document.

File/link: P6 Music education in times of pandemic – DD.pdf

Title: Production of educational videos for the first dimension of the UDL

Spanish title (original): Realización de vídeos educativos para la primera dimensión del DUA

Author: Diana Díaz González

Language. Spanish

Description: This document constitutes the complement for the learning of the subject exposed in the podcast of the same name, destined to the generation of educational videos for the motivational dimension of the Universal Learning Design (DUA). This document provides teaching materials (tasks, exercises, figures, diagrams, links to online teaching resources and

related bibliography) designed so that pre-service and in-service teachers can learn about the UDL principles, assess the possibilities of its application in the processes of teaching-learning and can delve into the first dimension of the DUA, linked to affective networks in learning, while being able to design and make an educational video aimed at the first dimension of the DUA.
Type: pdf document.

File/link: P7 Production of educational videos UDL – DD.pdf

Title: Interview with an expert professional: the Principal Águeda Almaraz shares her experience in the implementation of UDL in her school (Early Childhood Education and Primary Education levels

Spanish title (original): Entrevista con profesional experta: la directora Águeda Almaraz, (centro educativo de Infantil y Primaria) comparte su experiencia en la implantación del DUA

Author: Mónica Herrero y Nuria Hernández Nanclares

Language. Spanish

Description: This document constitutes the complement for the learning of the subject exposed in the podcast of the same name. It is meant to describe the implementation of DUA actions in an infant and primary school. This document provides teaching materials (tasks, exercises) designed so that pre-service and in-service teachers understand how to implement UDL in education.

Type: pdf document.

File/link: P8 Interview about UDL - MH NHN.pdf