Learn2Analyze

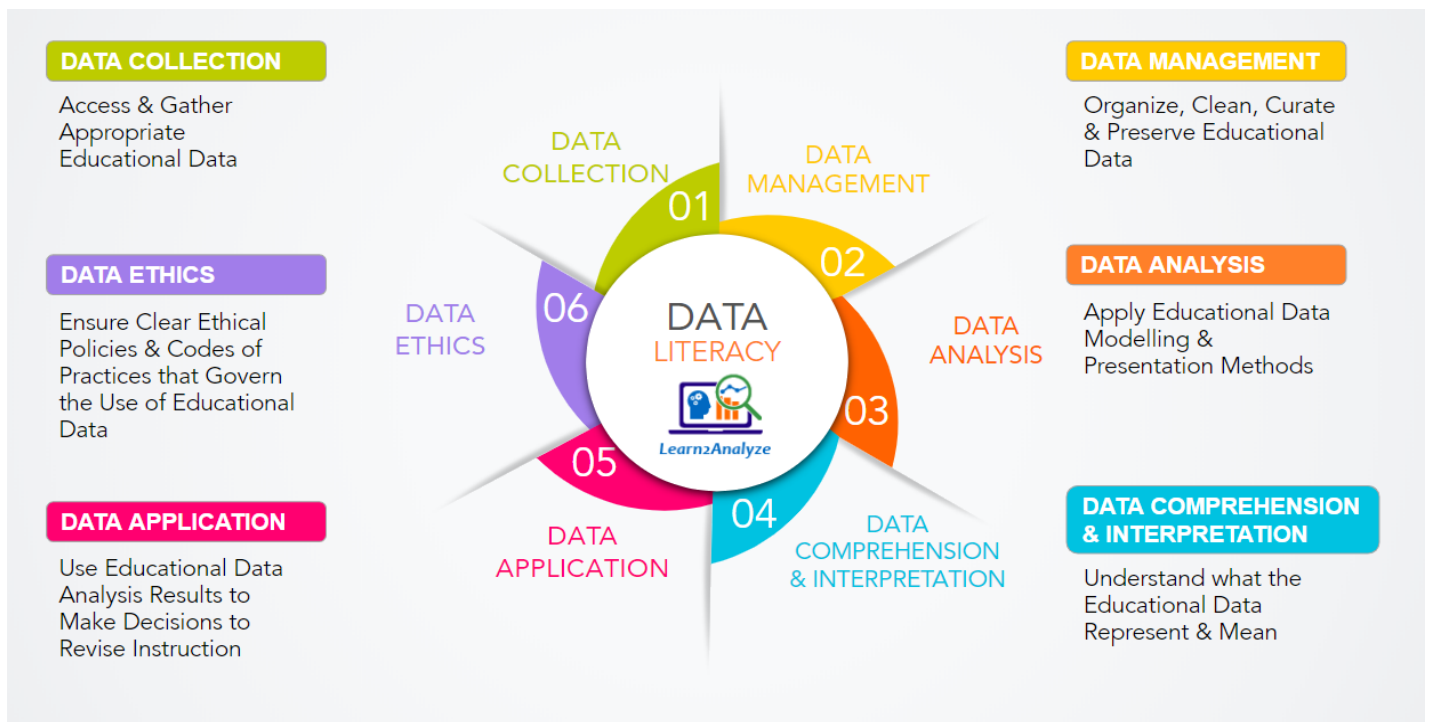# Learn2Analyze MOOC

Learn to Analyze Educational Data and Improve your Blended and Online Teaching

DATA COLLECTION
Access & Gather Appropriate Educational Data

DATA ETHICS
Ensure Clear Ethical Policies & Codes of Practices that Govern the Use of Educational Data

DATA APPLICATION
Use Educational Data Analysis Results to Make Decisions to Revise Instruction

DATA MANAGEMENT
Organize, Clean, Curate & Preserve Educational Data

DATA ANALYSIS
Apply Educational Data Modelling & Presentation Methods

DATA COMPREHENSION & INTERPRETATION
Understand what the Educational Data Represent & Mean

DATA COLLECTION 01
DATA MANAGEMENT 02
DATA ANALYSIS 03
DATA COMPREHENSION & INTERPRETATION 04
DATA APPLICATION 05
DATA ETHICS 06

DATA LITERACY
Learn2Analyze

Enrol on the new Learn2Analyze MOOC and earn your free Certificates of Achievement in Educational Data Literacy (Level A and Level B)

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Curtin University

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Course Data

Start Date:
March 1st, 2021
End Date:
May 1st, 2021
Pre-Requisites:
None
Duration:
9 weeks
Time Commitment:
100 hours in total
Level:
Introductory
Language: English
Cost: None

Target Audience

✓**e-learning professionals** (such as instructional designers and e-tutors) of online and blended courses

✓**school leaders** and **teachers** engaged in blended (using the flipped classroom model) and online (during the COVID19 crisis and beyond) teaching and learning

✓**university students** (undergraduates & postgraduates).

The learning outcomes of this course cover the set of competences anticipated by the Learn2Analyze Educational Data Literacy competence framework (L2A EDL-CP).

More information about the project is available at: www.learn2analyse.eu

About the Course

Hello and welcome to the new version of the **Learn2Analyze University-Industry** Massive Open Online Course **(MOOC)** on **Educational Data Literacy**, offered by the **Learn2Analyse Consortium**.

In the wake of the Covid-19 global pandemic, **emergency remote teaching** has become the new reality for school education around the world. As a result, educational data, that is the rich data footprint that students generate through their interactions in digital learning environments, has increased exponentially.

This MOOC aims to support the development of core and advanced competences for Educational Data Analytics of Online and Blended teaching and learning.

The course combines *theory* on collecting, analysing, interpreting and using educational data (including issues related with ethics and privacy) with *practice* on applying educational data analytics on three different e-learning platforms, namely, Moodle, the eXact Suite and the IMC Learning Suite.

The new version incorporates

- **gamification elements** to offer enhanced engagement in several authentic learning activities;
- **self-assessed assignments** based on real-life scenarios to offer deeper understanding of the educational data field; and
- an **upgraded assessment mechanism** leading to two levels of Certification of Achievement on Educational Data Literacy (EDL).

What you will learn

By completing this course you will:

- *know* where to locate useful educational data in different data sources and *understand* their limitations;
- *know* the basics for managing educational data to make them useful, *understand* relevant methods and *be able to use* relevant tools;
- *know* the basics for organising, analysing, interpreting and presenting learner-generated data within their learning context, *understand* relevant learning analytics methods and *be able to use* relevant learning analytics tools;
- *know* the basics for analysing and interpreting educational data to facilitate educational decision making, including course and curricula design, *understand* relevant teaching analytics methods and *be able to use* relevant teaching analytics tools;
- *understand* issues related with educational data ethics and privacy.

Your Instructors

Module 2 - UPRC
Prof Demetrios Sampson
Sofia Mougiakou
Dimitra Vinatsella

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Module 3 - NTNU
Prof Michael Giannakos
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Module 4 - UMA
Prof Dirk Ifenthaler
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Module 5 - eN
Deborah Couëdelo
Mary Jones

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Module 6 - LL
Elisabetta Parodi
Laura Brambilla
Maria La Porta

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Module 7 - IMC
Dr Uta Schwertel
Samandar Atoev
Dr Mareike Schmidt

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Course Syllabus

Module 1: Orientation
This module offers the opportunity to become familiar with the MOOC platform, the course structure and the course policies.

Module 2: Educational Data
This module will introduce the concept of educational data as a key success factor for online and blended teaching and learning, present the Learn2Analyze framework for educational data literacy competences and discuss the fundamentals of educational data collection and management, including issues related with ethics and privacy.

Module 3: Learning Analytics
This module will introduce the basics of methods and tools for analysing and interpreting online learners' data to facilitate their personalised support. It will focus on organising, analysing, presenting and interpreting learner-generated data within their learning context, as well as on ethical concerns and policies for protecting learner-generated data from mistreatment and misuse.

Module 4: Teaching Analytics
This module will introduce the basics of methods and tools for analysing and interpreting educational data for facilitating educational decision making, including course and curricula design.

Module 5: Educational Data Analytics with Moodle
This module will present tools for educational data analytics in Moodle and focus on the use of these tools to support school teachers in the design and delivery of their online and blended learning courses.

Module 6: Educational Data Analytics with eXact Suite
This module will present tools for educational data analytics in the eXact Suite and focus on the use of these tools to help instructional designers and e-tutors of online courses in supporting online learners.

Module 7: Educational Data Analytics with IMC Learning Suite
This module will present tools for educational data analytics in the IMC Learning Suite. The focus is on how the tools can support instructional designers of online courses in reflecting on their educational design and re-design the courses. The module also shows how the tools can help e-tutors to support online learners.

Module 8: Concluding the MOOC
This concluding module will allow participants to finalise their assignments, discuss their overall MOOC learning experience with their peers, and reflect on their learning experience by submitting the course feedback survey.

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Certification of Achievement

If you successfully complete this course you will receive a Certificate of Achievement (Level A or Level B or both).

Successful completion of the course requires:

✓ completing the corresponding **Multiple Choice Questions Assessment** for Level A and/or Level B Certificate with **60% success**

✓ completing the **Pre-course** and the **Post-course Surveys**

Final Assessment, Grading Policy and Certification

This course is graded as *Pass or Fail*, meaning you will either be given a passing score or a failing score.

There are two levels of the L2A Certificate of Achievement on Educational Data Literacy:

- **Level A** Certificate of Achievement requires the learner to have acquired a basic set of competences for EDL

- **Level B** Certificate of Achievement requires demonstration of a higher expertise assessed through hands-on assignments based on simulated practice scenarios

In order to successfully complete this course and earn your Level A and/or Level B **Certificate of Achievement** you must gain a mark of **60% or greater** overall to the corresponding set of 100 multiple choice quiz questions for each Level.

Both sets of Multiple Choice Questions are included at the end of the course and you may complete the Multiple Choice Questions Assessments **at any time** as there are no 'due dates'.

We are excited to offer this new course and we do hope you will enjoy learning about analysing Educational Data to improve your Blended and Online Teaching!