DeustoTech Learning working on the assessment of generic and specific competencies using Learning Analytics

DeustoTech Learning – Faculty of Engineering University of Deusto (Spain)
Research and Innovate in the learning and teaching of Generic and Specific competencies linked to STEM (Science, Technology, Engineering, Math).

Increase the interest in STEM and promote scientific-technological vocations.

Ongoing projects:
- Go-Lab (FP7-ICT)
- Make World (Erasmus+)
- iCoop (Tempus)
- Nerela (Tempus)
- Trastea (FECYT-MINECO)
- Ciencia Remota (FECYT-MINECO)
- Auto Game (Dpto. Educ. GV)
- Huertik (SPRI-GV)
- Teknologia Interaktiboa: Robotika (EIMA 2.0 - GV)
- Teknologia Interaktiboa: Instalazio elektrikoak (EIMA 2.0 - GV)
• Serious game
• Pedagogical objective: identify breakdowns in electrical diagrams of cars.
• Learning Analytics to:
  • Monitor students’ progress for teachers and students.
  • Include gamification dynamics
Kodetu

• *Hour of Code* adapted to design the levels of difficulty and register students’ activity.

• LA objective: how do students learn to program?
  • Which are the different strategies used to address the challenge?
  • Is there a difference between male/female or their previous interest in technology?
  • Can we identify the “Aha!” moment?
• Ongoing Erasmus+ project.
• A platform providing tools and methodologies for STEM education.
• Includes a LA subsystem for:
  • Users (students)
  • Mentors (teachers)
  • Researches
AAAS – Activities Automatic Assessment System

VISIR over Weblab-Deusto

Remote Experimentation  Learning Analytics
SCALA

• Supporting Competency Assessment through Learning Analytics

• Challenges:
  • Data quality
  • Integration of heterogeneous data sources
  • Standardization
  • ...
  • Give an educational meaning to processed data → enrich indicators
SNOLA
Spanish Network Of Learning Analytics

• Founded in 2013
• Network of researchers and developers interested on the field
• Creating synergies and promoting related initiatives
• New members are welcome!

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Thank you!

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