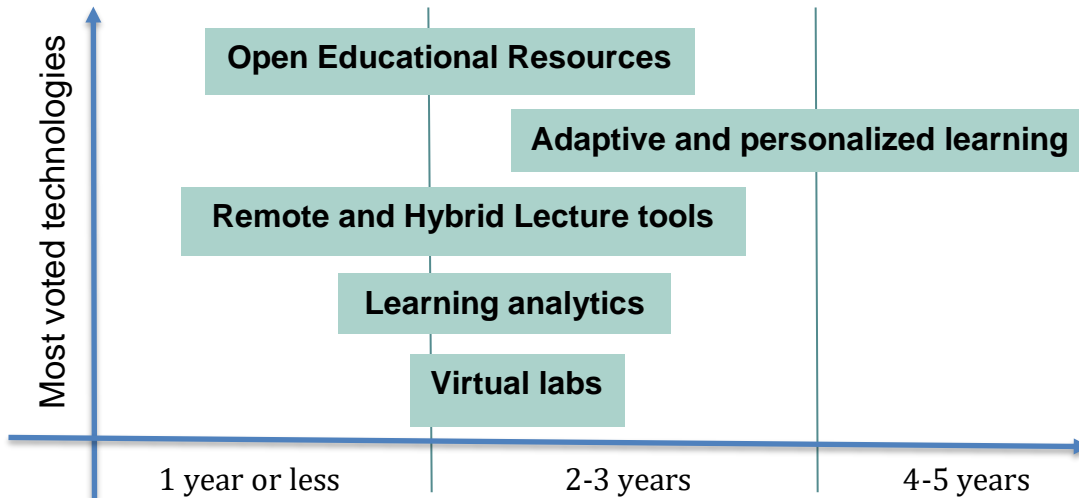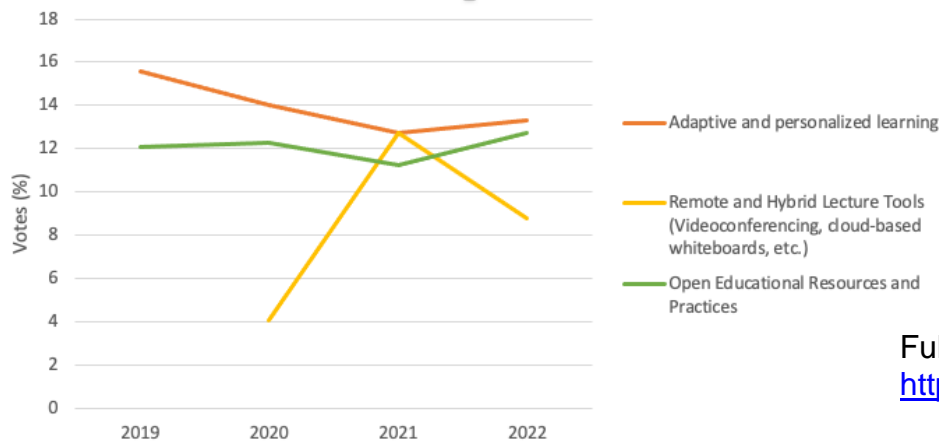# The Engineering Education Technologies Report

2022 Edition

The **EETR** forecasts the **most promising** learning **technologies** to **impact engineering education** depending on their discipline and region
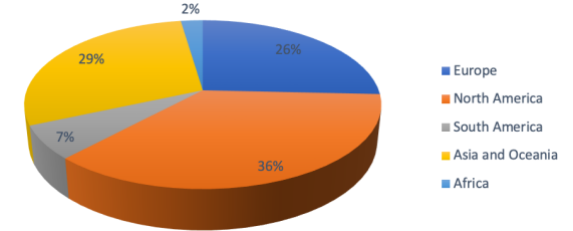
Most voted technologies

- Open Educational Resources
- Adaptive and personalized learning
- Remote and Hybrid Lecture tools
- Learning analytics
- Virtual labs

| 1 year or less | 2-3 years | 4-5 years |

Annual trend for the 3 most voted technologies

- Adaptive and personalized learning
- Remote and Hybrid Lecture Tools (Videoconferencing, cloud-based whiteboards, etc.)
- Open Educational Resources and Practices

Full data available at:
http://open.ieec.uned.es/EERT

Sample

175 experts in engineering education participated

- Europe — 26%
- North America — 36%
- South America — 7%
- Asia and Oceania — 29%
- Africa — 2%

Challenges for the Top 3 technologies

1 Adaptive and personalized learning

1. New pedagogical methodologies that apply to the technology
2. Better understanding of new ways of interacting with student

2 Open Educational Resources

1. More funds to further development and implantation
2. New pedagogical methodologies that apply to the technology

3 Remote and Hybrid Lecture Tools

1. New pedagogical methodologies that apply to the technology
2. Creativity in designing learning experiences

Organizers:
IEEE Education Society | IEEE Sociedad Educación CAPÍTULO ESPAÑOL | UNED | MSOE UNIVERSITY

Citation: S. Martin, E. Lopez-Martin, A. Moreno-Pulido, R. Meier, M. Castro (2022). *Engineering Education Technologies Report 2021 - Executive summary*.