ShakeAM
sharing knowledge in design for AM

shakeam-project.eu

SHARING KNOWLEDGE IN DESIGN FOR AM

Project Number: 2022-1-PT01-KA220-HED-000089727.

ShakeAM (Learning by SHAring Knowledge in dEsign for AM) **is committed to transforming Higher Education** (HE) **institutions and shaping the future of Design for Additive Manufacturing** (DfAM)**.**

ABOUT

ShakeAM project addresses the need to increase the capacity and readiness of **Higher Education institutions** to manage an **effective shift towards digital technologies** for a systematic approach regarding the training delivery and acquisition of **digital skills and competencies** on **Design for Additive Manufacturing** by **HE students and designer professionals** (AM and non-AM experienced).

WHAT YOU WILL LEARN?

- **TRAINING PROGRAMME** in **Relevant Principles of Material Extrusion for Design**
- **14 HOURS duration**
- **ADVANCED KNOWLEDGE OF:**
  - Theory, principles and applicability of **MEX** process
  - Capabilities and limitations of **MEX** process influencing design
  - Design considerations required for **MEX** parts design (for the whole process chain)
  - Sustainability influence in design
- **SKILLS:**
  - Relate the capabilities and limitations of **MEX** to design considerations
  - Determine dimensional constraints and geometric tolerances required for **MEX** parts design
  - Provide solution-based approaches to redefine design problems (**Design Thinking**) within **MEX** process and parts




OBJECTIVES

ShakeAM focuses on **digital readiness**, **skill development**, **collaboration**, **innovation**, and **lifelong learning** within the context of DfAM and HE institutions. **training** HE students and designer professionals, **fostering digital skills and competencies** for DfAM.

Digital Skills Development

Training HE students and professionals for DfAM, fostering digital transformation, and sharing best practices.

DfAM Innovative Learning Ecosystem

ShakeAM boosts student engagement through real-life examples and peer collaboration for better understanding and best practice adoption.

Teacher Support

ShakeAM empowers educators to embrace digital pedagogy and enhance teaching competencies for effective knowledge transfer.

Smooth Transition & Lifelong Learning

Facilitates HE students' transition to the professional world, acknowledging the evolving nature of DfAM and promoting lifelong learning and personal development.

PARTNERS

U LISBOA | UNIVERSIDADE DE LISBOA · EWF · makeamazing · LMS Laboratory for Manufacturing Systems & Automation · eit Manufacturing · Brunel University London

Co-funded by the European Union

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein. **Project No. 2022-1-PT01-KA220-HED-000089727.**