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ErgoDesign Improving digital skills for Ergonomics and Bioengineering Innovations for inclusive Health Care

Starting date
01.09.2022

Duration:
36 months

Contact us:
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Project website:
www.ergodesigner.eu

NEWSLETTER 01/2024 (09)

Co-funded by the European Union

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Newsletter 01/2024 (9)

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About Project

The ErgoDesign course is ready for boarding!

We are thrilled to announce that the testing phase of the online course on 3D printing of implants has commenced as part of the ErgoDesign Project.

The course is now open and available, although we primarily recruit participants from universities involved in the project implementation. Here's how you can join:

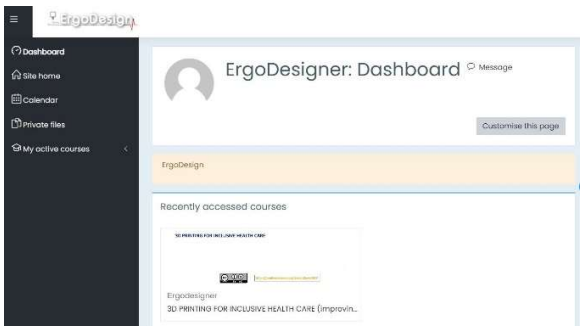
First, create an account on the platform here: http://ergodesigner.tu-varna.bg/login/signup.php?

Second, confirm your registration from your mailbox.

Third, self-enroll in the ErgoDesign course here: http://ergodesigner.tu-varna.bg/enrol/index.php?id=3

The pilot period will conclude mid-May, and final adjustments will be made based on participant feedback.

Don't miss this opportunity to enhance your knowledge of implant 3D printing and contribute to advancing ergonomics and bioengineering!



Newsletter
01/2024 (9)

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Project Context

Introduction to a short history of biomaterials

Although biomaterials have been around for a very long time, the name and notion of biomaterials are relatively recent. A biomaterial is any substance that can be injected into a living organism or body without causing a detrimental biological reaction. The historical use of biomaterials dates back to ancient times; for instance, ancient Egyptians utilized animal sinew for sutures to stitch wounds.

The field of biomaterials has undergone a significant revolution by embracing a multidisciplinary approach that integrates various scientific disciplines, including medicine, biology, physics, chemistry, materials science, manufacturing engineering, and tissue engineering.

These days, they are incredibly popular in the medical industry for a variety of uses, from sutures to permanent implants. Before people could understand what a biomaterial was or why they worked or did not function, they used them for many years to give solution to medical problems.

More: http://ergodesigner.eu/index.php/news

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Do you still wonder if 3D printers and medicine are related? - Local successes from partner countries

We are pleased to inform you that a complex maxillofacial surgery procedure was performed at the Poznan Hospital! Thanks to the cooperation with the Poznan University of Technology, the treatment of a patient with temporomandibular joint stiffness was provided. The quality of life of a person after radiotherapy who had difficulty opening his mouth has been improved significantly. It was possible due to changing position of the mandible, which, as you probably remember, is the only movable bone in our head.

We wish the team a lot of success and a patient a quick and easy recovery!

We would like to remind you that our project supports activities related to the use of 3D design in medicine, and ergonomics!

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It's amazing! – Continuation of successes ☺

Two difficult surgeries were performed at the Poznan Hospital using 3D technology. They allowed to provide a treatment of tear duct obstruction. The application of augmented reality enabled to do endoscopic sac-nasal anastomosis. The surgeon had the opportunity to observe and superimpose a 3D reconstruction image on the actual image of the operated area using special holographic glasses. Thanks to it, the operation could be more precise than a standard one using two-dimensional imaging, i.e. computed tomography.
So far, only 3 such operations have been performed in Poland (in Warsaw), so we are glad that other centers undertake such actions for the benefit of patients. Congratulations!

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Are you interested in:

- 3d printing in medicine
- a modern, inclusive approach to health
- design for people with disabilities
- ergonomics of work

If you said 

follow us on the website, facebook, linkedin or just contact us.

Our design activities results could be appealing to you!

See you soon!