



International Conference
INTER-ENG 2019
Interdisciplinarity in Engineering
3 - 4 October 2019
U.M.F.S.T. Târgu Mureş
Romania



Romanian Academy
of Technical
Sciences



Zagazig University

Fusion 360 - Learning in Clouds

Dr. Anna Grabowska

Autodesk Authorized Academic Partner

Gdańsk University of Technology

Gdańsk, Poland

Our diary

- **1995 – Authorized Autodesk Training Centre (ACSA PG)**
- 1996 – 1998 TeleCAD created
- 1998 – 2003 TeleCAD platform usage
- 2003 – Moodle replaces TeleCAD
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- 2017 – SP4CE, Autodesk Open Doors at Gdańsk University of Technology
- 2020 – CoLED, Cerificates of attendance, Certiport (ACU, ACP)

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10 modules – online/off line/printed



WERSJA POLSKA dla
AutoCAD PL

WERSJA POLSKA dla
AutoCAD EN

Oferta wydawnictwa
Mikom

Obsługa programu
AutoCAD 2000 i 2002
w ćwiczeniach

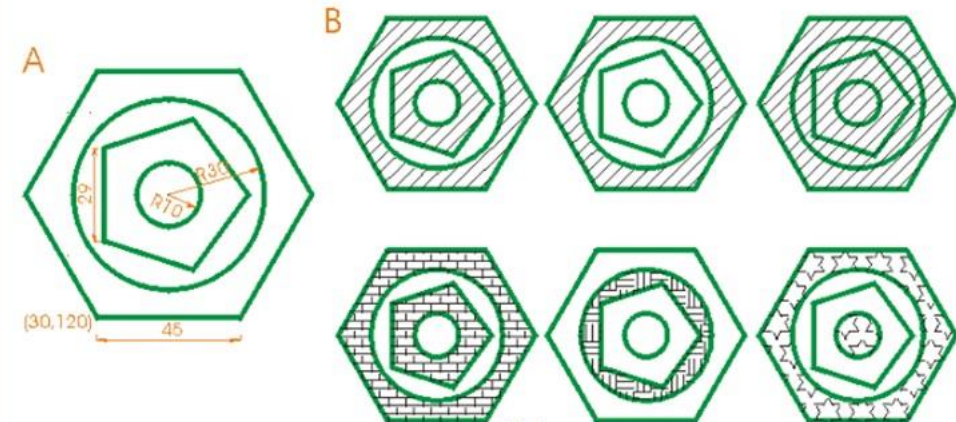
[Spis] Ćwiczenia: [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [Dodatki]



Ćwiczenie 4: MODYFIKACJE RYSUNKÓW (1). KRESKOWANIE

ZADANIE 1:

Narysuj na warstwie 1 figurę pokazaną na rysunku 4.1A (współśrodkowe: okręgi o promieniach $R = 10$ i $R = 30$, pięciokąt o boku 29 i sześciokąt o boku 45). Następnie skopiuj ją i przeskaluj ze współczynnikiem 0.5. Utwórz szyk (2 wiersze i 3 kolumny) i zakreskuj (na warstwie 8) zgodnie z rysunkiem 4.1B.



ROZWIĄZANIE

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919 students in 2000-2002

TeleCAD platform usage	Students
AutoCAD pilot course in English - 2000	89
AutoCAD pilot course in Polish - 2000	35
ICT exams for students - 2000/2001	468
ICT exams for students - 2001/2002	323
AutoCAD summer course 2002	4

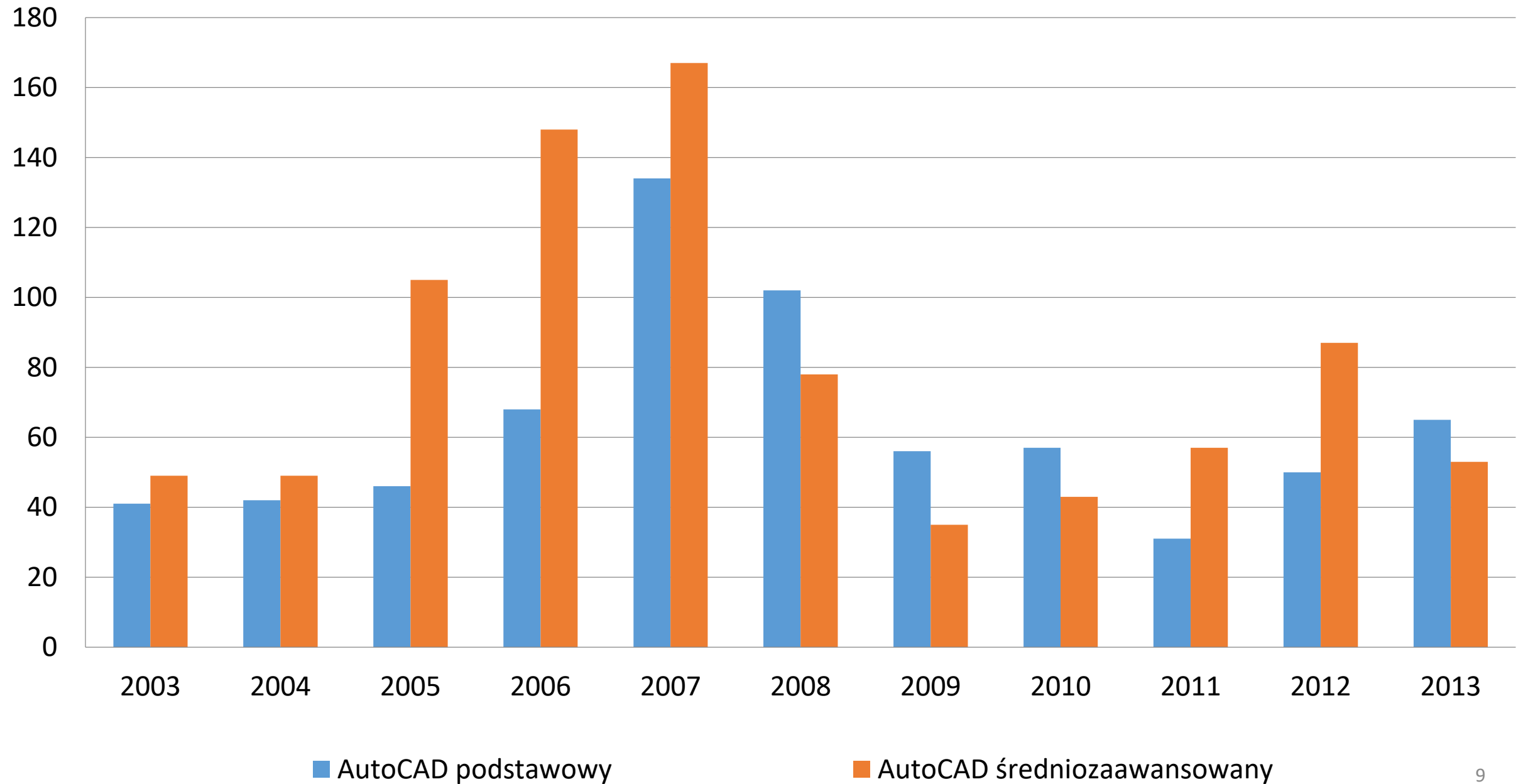
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From 2003

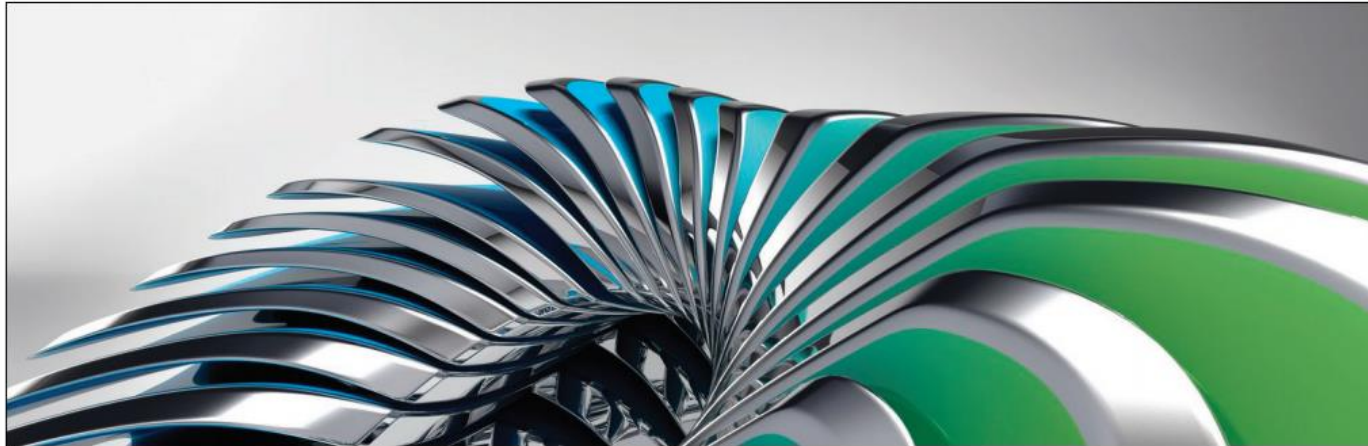


Certificates in the period 2003 - 2013



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Certificate of Course Completion

Congratulations!

The Autodesk® Authorized Academic Partner course you have completed was designed to meet your learning needs with professional instructors, relevant content, authorized courseware, and ongoing evaluation by Autodesk.

The AAP network helps students and educators achieve excellence in using our software products.

Certificate No. [REDACTED]

RODO

AutoCAD
Product

Autoryzowane Centrum Szkolenia Autodesk Politechniki Gdanskiej

Institution:

RODO



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Carl Bass
President, Chief Executive Officer

2003 – 2016

>1.800 Autodesk certificates

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2016



AUTODESK

Authorized Academic Partner

Main page - Autodesk Authorise: x +

pg.edu.pl/aap/main-page

GDANSK UNIVERSITY OF TECHNOLOGY

AUTODESK AUTHORISED ACADEMIC PARTNER (AAP)

AUTODESK Authorized Academic Partner

Faculties Units Sign In

A A A [Icons] Search...

Home Courses Certiport Autodesk About us Contact

Main page
Courses
Certiport Autodesk
About us
Contact

Co-operation with AAP POZA SCHEMATEM
Certiport and GMetrix Congress of Education Development, 22 November 2018

14 December 2018

Co-operation with Department of Management and Economics
In October 2018 AAP and WZiE signed the agreement of co-operation regarding organization of Certiport Autodesk exams including AutoCAD, Revit, Inventor, Fusion 360.

14 December 2018

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ERASMUS+ SP4CE Learning Rooms - sustainability



SP4CE

European Certification Open Doors, 6-11.11.2017

Dashboard ▶ Autoryzowane Centrum Szkolenia Autodesk Politechniki Gdańskiej ▶ European Certification Open Doors

PEOPLE

Participants

NAVIGATION

Dashboard

- Site home
- Site pages
- Current course
 - European Certification Open Doors**
 - Participants
 - Badges
 - Communication
 - Documents, links, etc.
- My courses

Communication

Budynek "B", sala 821

czwartek, 09.11.2017, godz. 11:15

piątek, 10.11.2017, godz. 15:15

News forum

Forum for participants

? What is your choice of exam?

Documents, links, etc.

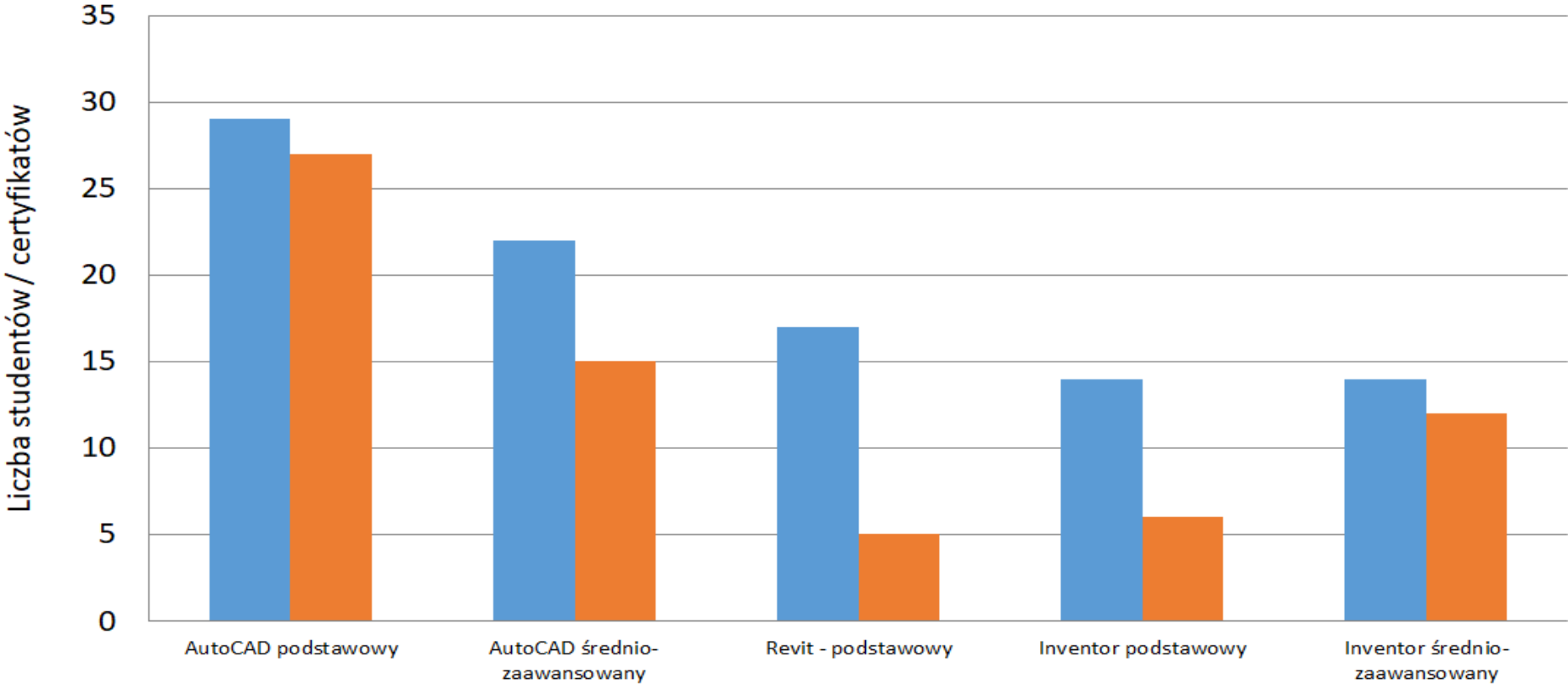
2017

Autodesk Open Doors

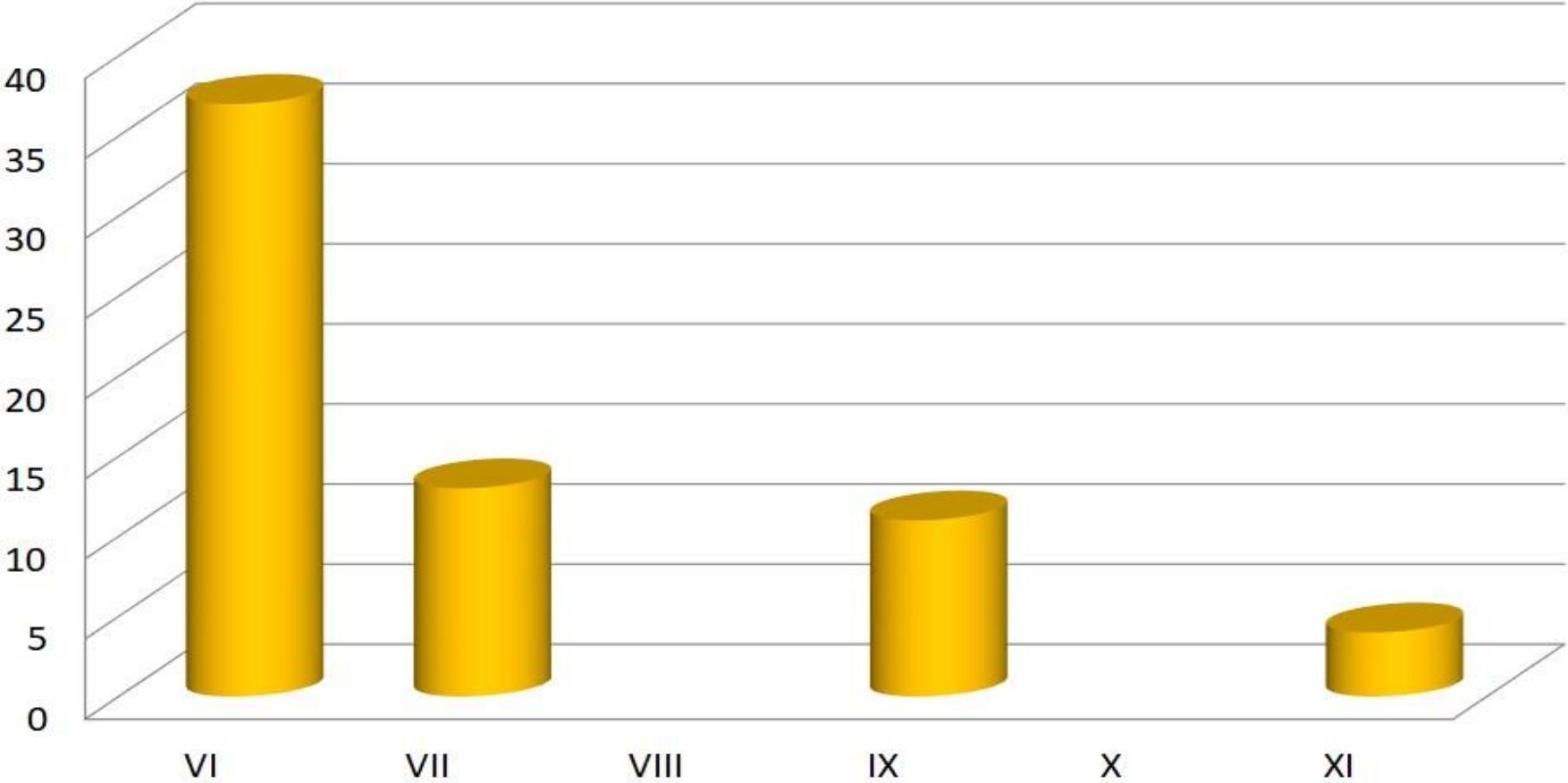




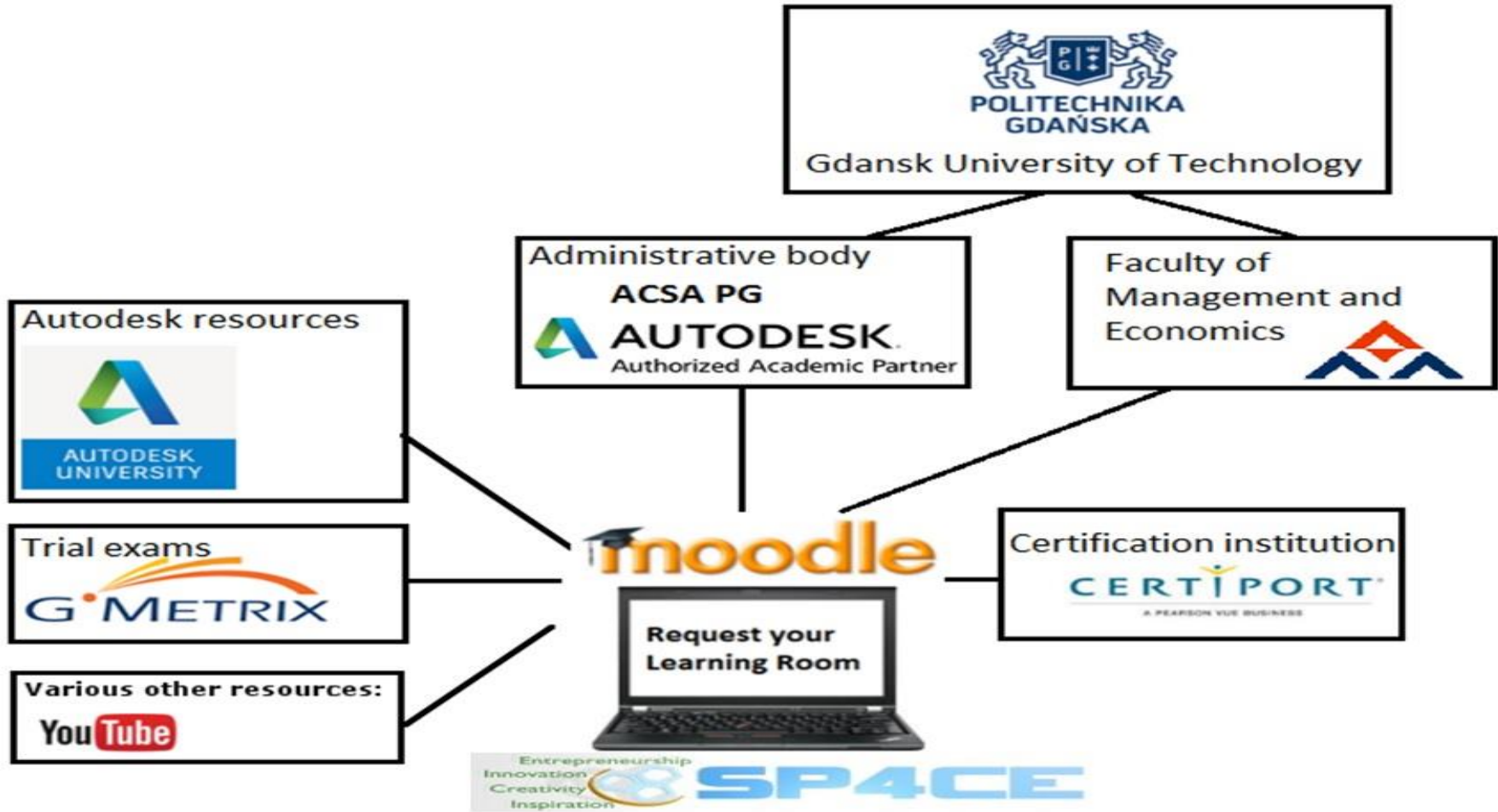
AAP at GUT - courses and exams statistics in summer 2017



AAP at GUT - certificates for students summer 2017



The model of co-operation based on LR concept



CERTIPORT®

A PEARSON VUE BUSINESS

AUTHORIZED TESTING CENTER



CERTIPORT®

A PEARSON VUE BUSINESS

Raport Oceny

[Pokaż informacje o dostępności...](#)

AUTODESK
Certified Professional

EXAM SCORE REPORT

CANDIDATE	EXAM
RODO	Inventor Certified Professional Exam
	Exam reference #: 32550608 Date: November 7, 2018 ID: RODO

RESULTS	100	200	300	400	500	600	700	800	900	1000
Required Score										
Your Score										

SECTION ANALYSIS	FINAL SCORE
Advanced Modeling	100%
Assembly Modeling	100%
Drawing	100%
Part Modeling	100%
Presentation Files	0%
Project Files	0%
Sheet Metal	100%
Sketching	67%
Weldments	100%

FINAL SCORE	OUTCOME
Required Score	700
Your Score	910
Pass	✓

Gotowe

Results of examination between 1st November 2017 and 18th July 2018

Exam	Number of passed	Number of failed attempts
Inventor Certified Professional Exam		1
3d Max Certified Professional Exam		1
Certified Professional: Revit for Mechanical Building Systems - Metric Exam	1	
Autodesk AutoCAD Certified User Exam	2	
AutoCAD Certified Professional Exam	4	2
Fusion 360 Certified User Exam	1	1

Time Frame

[View Report](#)

1 of 1 Find | Next



Results (264)

90073591 Autoryzowane Centrum Szkolenia Autodesk Politechniki Gdanskiej

Results for past 1 year

Candidate	Alternate Name	Exam	Language	Exam Date	Score	Result	Time Used
R n		Autodesk Fusion 360 Certified User Exam	English	11/08/2017	478	FAIL	77 min 35 sec
		AutoCAD Certified Professional Exam	Polish	11/09/2017	77	FAIL	124 min 9 sec
		AutoCAD Certified Professional Exam	Polish	11/09/2017	31	FAIL	107 min 30 sec
		Autodesk AutoCAD Certified User Exam	English	11/23/2017	875	PASS	77 min 31 sec
		Autodesk Fusion 360 Certified User Exam	English	11/23/2017	754	PASS	79 min 0 sec
		Autodesk AutoCAD Certified User Exam	English	11/23/2017	875	PASS	77 min 28 sec



Student Login

[Forgot your password?](#)

No account? [Sign up here!](#)

OR

Sign in with an existing provider.



Changes have been made to the GMetrix Privacy Policy. Click [HERE](#) to view.



Time Frame [View Report](#)

1 of 1 Find | Next



A PEARSON VUE BUSINESS

Results (264)

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		Autodesk AutoCAD Certified User Exam	English	11/23/2017	875	PASS	77 min 31 sec
		Autodesk Fusion 360 Certified User Exam	English	11/23/2017	754	PASS	79 min 0 sec
		Autodesk AutoCAD Certified User Exam	English	11/23/2017	875	PASS	77 min 28 sec
		AutoCAD Certified Professional Exam	Polish	11/30/2017	97	PASS	102 min 52 sec
		AutoCAD Certified Professional Exam	Polish	01/11/2018	94	PASS	120 min 29 sec
		AutoCAD Certified Professional Exam	Polish	01/25/2018	91	PASS	96 min 7 sec
		Certified Professional: Revit for Mechanical Building Systems - Metric Exam	English	06/26/2018	760	PASS	128 min 22 sec
		AutoCAD Certified Professional Exam	English	07/17/2018	871	PASS	124 min 9 sec
		3ds Max Certified Professional Exam	English	07/17/2018	532	FAIL	124 min 37 sec
	Inventor Certified Professional Exam	English	07/17/2018	644	FAIL	123 min 48 sec	
	AutoCAD Certified Professional Exam	English	11/07/2018	914	PASS	89 min 8 sec	
	Inventor Certified Professional Exam	English	11/07/2018	910	PASS	100 min 27 sec	

Time Frame Past 1 year

View Report



A PEARSON VUE BUSINESS

Results (264)

90073591 Autoryzowane Centrum

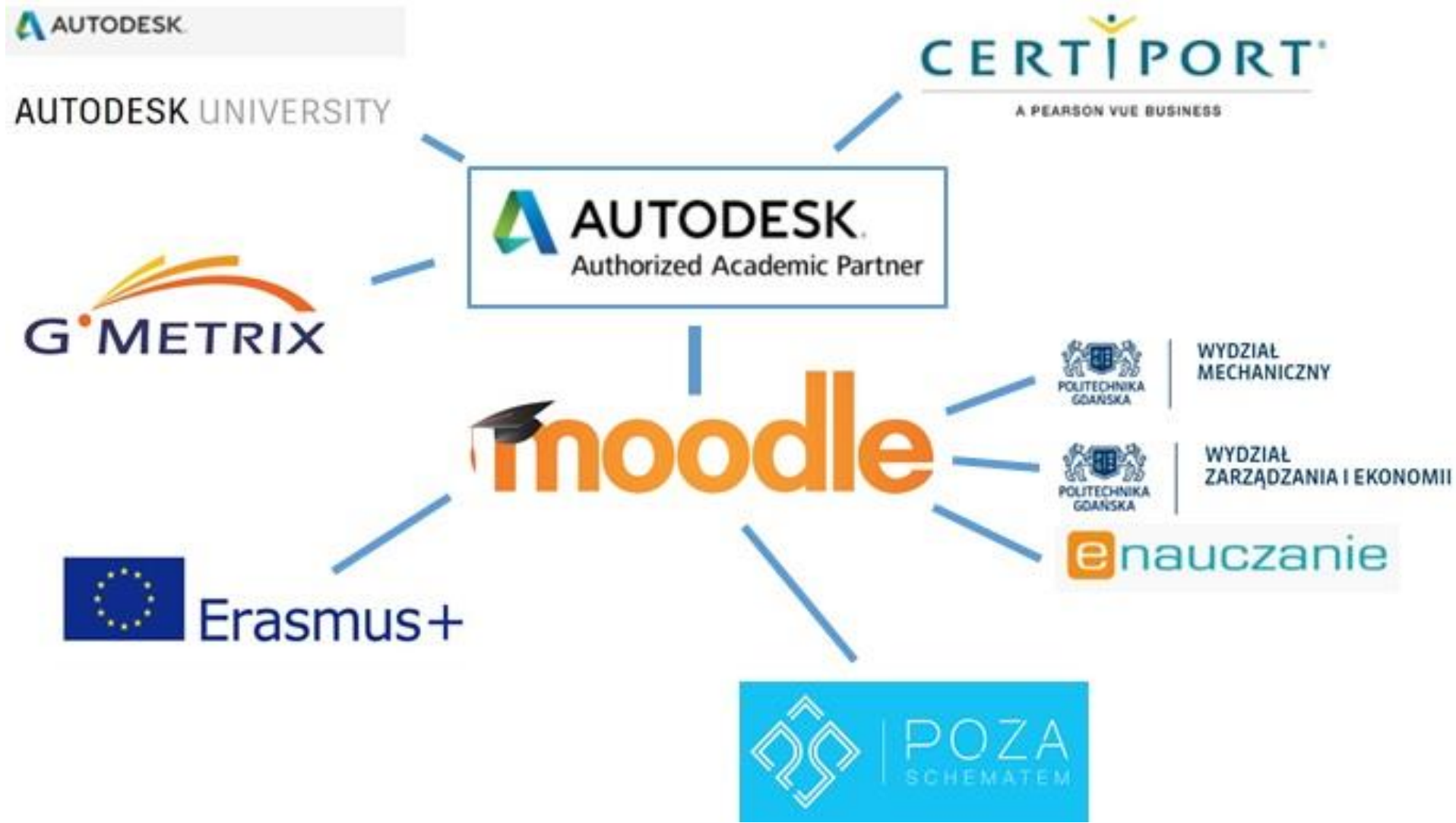
Results for past 1 year

Candidate	Alternate Name			Time Used	
R O D O		11/23/2017	875 PASS	77 min 31 sec	
		11/23/2017	754 PASS	79 min 0 sec	
		11/23/2017	875 PASS	77 min 28 sec	
		11/30/2017	97 PASS	102 min 52 sec	
		01/11/2018	94 PASS	120 min 29 sec	
		01/25/2018	91 PASS	96 min 7 sec	
		06/26/2018	760 PASS	128 min 22 sec	
		07/17/2018	871 PASS	124 min 9 sec	
		07/17/2018	532 FAIL	124 min 37 sec	
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Let's co-operate and share



Learning Rooms in Moodle (ERASMUS +SP4CE)

SP4CE English (en) ▼ You are not logged in. (Log in)

SP4CE Learning Rooms

NAVIGATION

[Home](#)

[News only in English](#)


[Courses](#)

CALENDAR

November 2016

Mon	Tue	Wed	Thu	Fri	Sat	Sun
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Course categories



[Greece - IDEC](#) (6)

[Poland - PIAP, PRO-MED](#) (44)


[Hungary - TREBAG](#) (16)

[Slovakia - ASTRA, TUKE](#) (8)

[Others](#) (5)

[Collapse all](#)

REQUEST




Request your Learning Room


Requests for new Learning Rooms (Courses) should be send by a local Administrator.

ONLINE USERS

(last 5 minutes)

 Anna Grabowska

You are not logged in. (Log in)



ERASMUS + SP4CE – Strategic Partnership for Creativity and Entrepreneurship (2014-...)

SP4CE Learning Rooms

Not secure | sp4ce.moodle.pl

SP4CE English (en) - You are not logged in. (Log in)

SP4CE Learning Rooms

NAVIGATION

- Home
- News only in English
- Courses

CALENDAR

September 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Course categories

- Projekty grupowe (1)
- Seniors@ICT ERASMUS+ (1)
- CoLED ERASMUS+ (8)
- SPIDW ERASMUS+ (2)
- SPADE ERASMUS+ (8)
- Gamifikacja w szkoleniach (2)
- Prace naukowe (4)
- Autoryzowane Centrum Szkolenia Autodesk Politechniki Gdańskiej (13)
- Współpraca Partnerów Akademickich Autodesk (11)
- Greece - IDEC (14)
- Poland - PIAP, PRO-MED (61)
- Hungary - TREBAG (16)
- Slovakia - ASTRA, TUKE (8)
- Multiplier Events by PRO-MED (5)
- Others (7)
- e-mentor (1)

REQUEST

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ONLINE USERS

(last 5 minutes)
None

You are not logged in. (Log in)

moodle

CoLED – Collaborative Learning Environment for Engineering Education

SP4CE Learning Rooms

NAVIGATION

- Home
- News only in English
- Courses

CALENDAR

September 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
						30

Course categories

- Projekty grupowe (1)
- Seniors@ICT ERASMUS+ (1)
- CoLED ERASMUS+ (3) 2018 - 2020**
- SPIDW ERASMUS+ (2)
- SPADE ERASMUS+ (3)
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- 2014** Greece - IDEC (14)
- Poland - PIAP, PRO-MED (51)
- 2017** Hungary - TREBAG (16)
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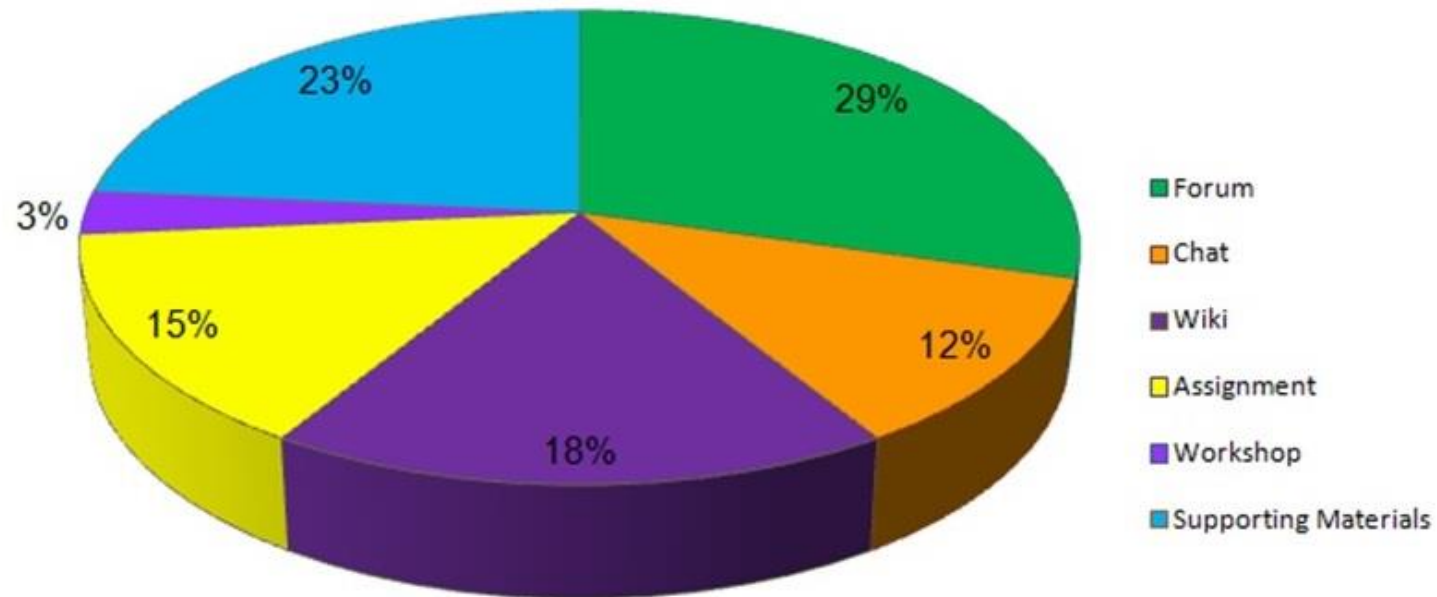
(last 5 minutes)
None

You are not logged in. (Log in)

moodle

The best tools for communication that can be used in Learning Rooms (SP4CE ERASMUS+)

What do you consider as the best tool(s)?



Case study - What is Fusion 360?

- Fusion 360 is a cloud-based CAD/CAM tool for collaborative product development.
- Fusion 360 is free for students, educators, and academic institutions.
- Using Fusion 360, students can develop their skills in order to become tomorrow's engineers, product designers, and industrial designers.



Fusion 360 MOOC

<https://www.udemy.com/product-design-fusion-360/>

Product Design in Autodesk Fusion 360 from idea to prototype
Design a product starting from first sketches to complex forms, assemblies and CNC machining
★★★★★ 4.6 (1,521 ratings) • 9,674 students enrolled
Instructed by Autodesk Education Design / 3D & Animation

Free
Start Learning Now

More Options ▾

Lectures	33
Length	4 hours
Skill Level	All Levels
Languages	English, captions
Includes	Lifetime access 30 day money back guarantee! Available on iOS and Android Certificate of Completion

Wishlist

About This Course Curriculum Instructor Reviews

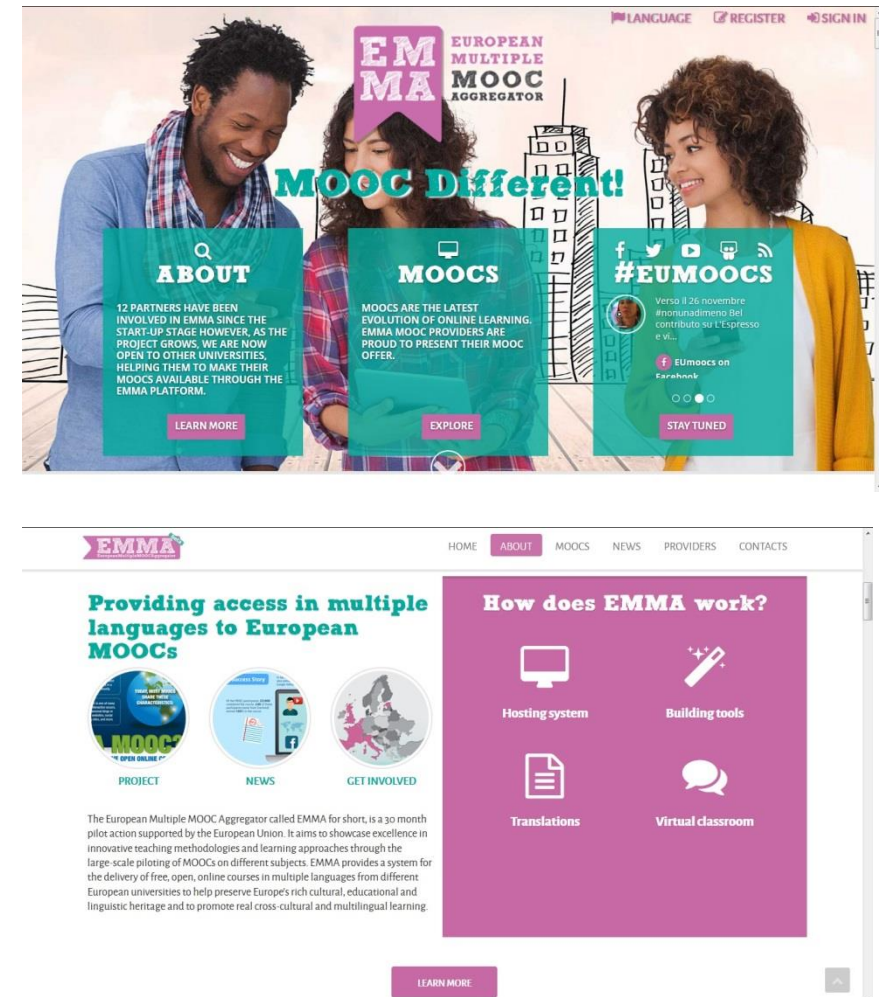
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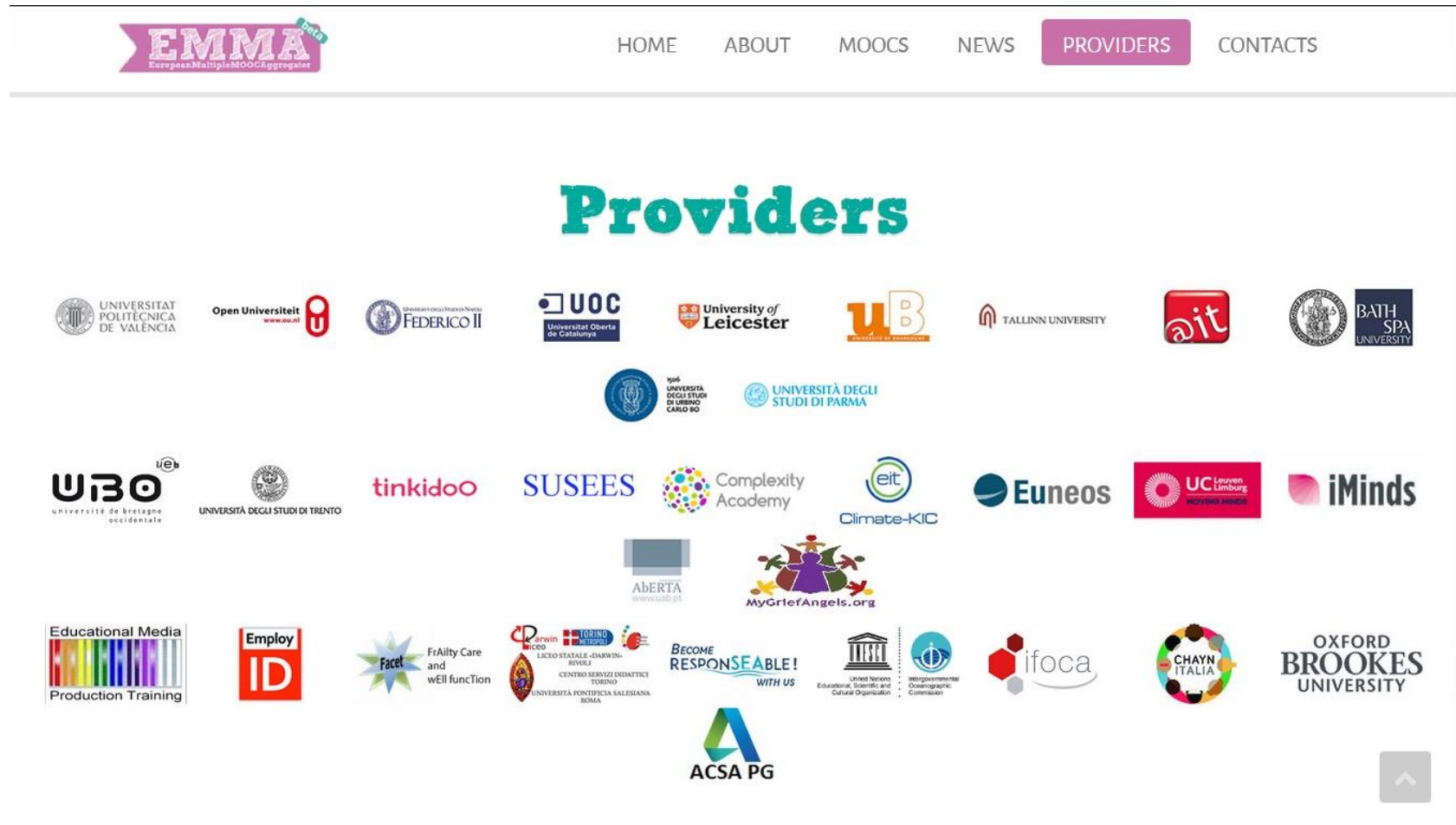
MOOC Fusion 360 in EMMA

The European Multiple MOOC Aggregator called EMMA for short, was a 30 month pilot action supported by the European Union.

It aimed to showcase excellence in innovative teaching methodologies and learning approaches through the large-scale piloting of MOOCs on different subjects.

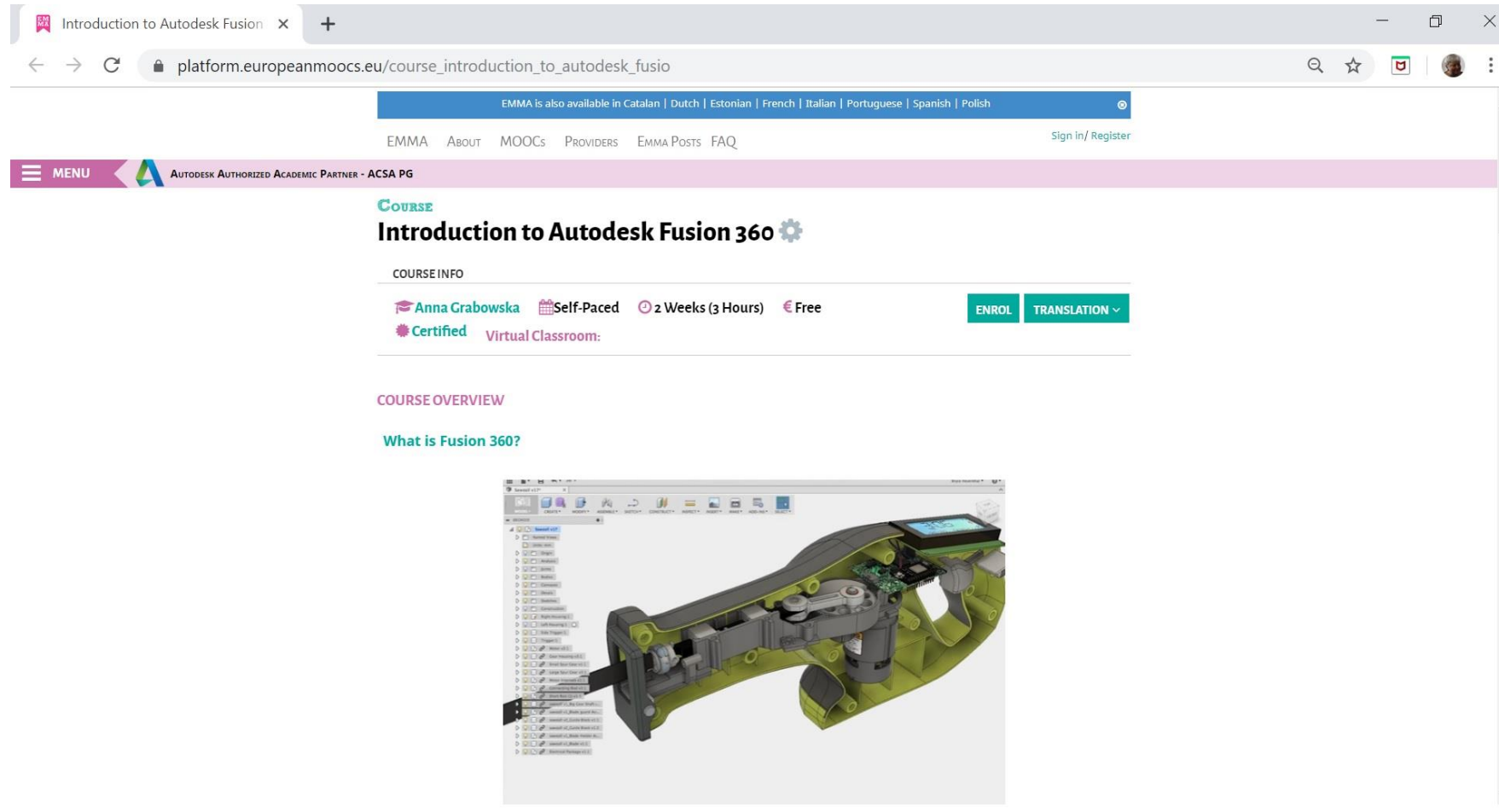


EMMA providers



Fusion 360 in EMMA

https://platform.europeanmoocs.eu/course_introduction_to_autodesk_fusio



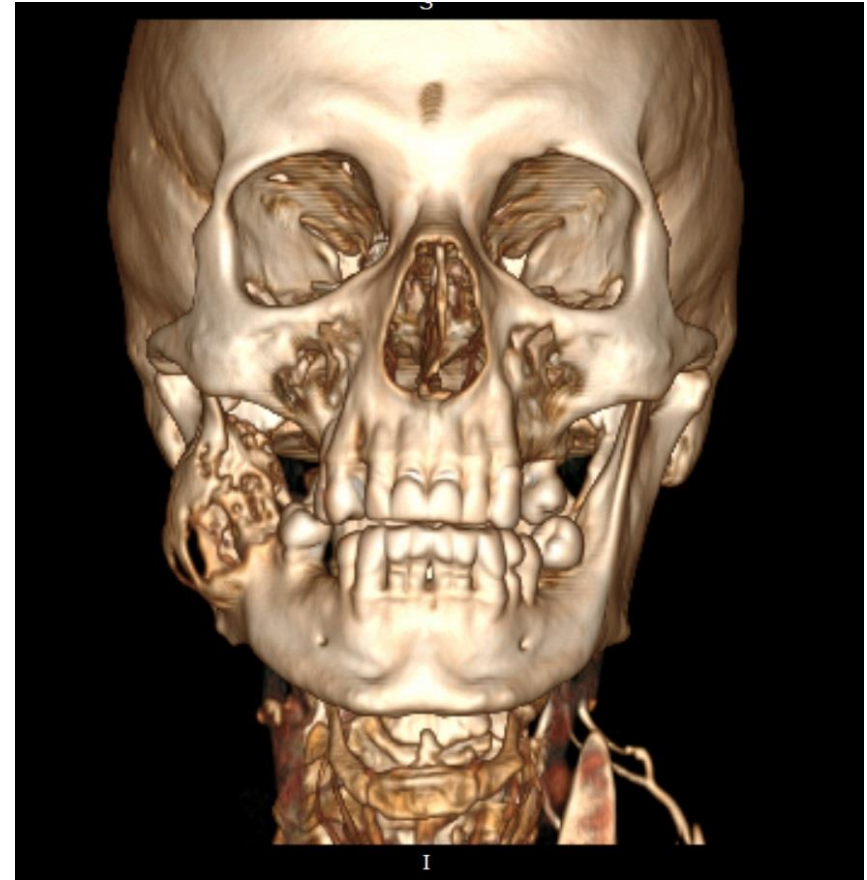
The screenshot shows a web browser window displaying the course page for 'Introduction to Autodesk Fusion 360' on the EMMA platform. The browser's address bar shows the URL 'platform.europeanmoocs.eu/course_introduction_to_autodesk_fusio'. The page features a blue navigation bar with language options (Catalan, Dutch, Estonian, French, Italian, Portuguese, Spanish, Polish) and a 'Sign In / Register' link. Below this is a pink header with a 'MENU' button and the text 'AUTODESK AUTHORIZED ACADEMIC PARTNER - ACSA PG'. The main content area is titled 'COURSE Introduction to Autodesk Fusion 360' with a gear icon. Under 'COURSE INFO', it lists the instructor 'Anna Grabowska', 'Self-Paced' format, '2 Weeks (3 Hours)' duration, and 'Free' cost. There are 'ENROL' and 'TRANSLATION' buttons. The 'COURSE OVERVIEW' section includes a link 'What is Fusion 360?' and a 3D CAD model of a mechanical assembly, likely a gun, rendered in a green and grey color scheme.

Let's co-operate in clouds (Fusion 360 & moodlecloud)

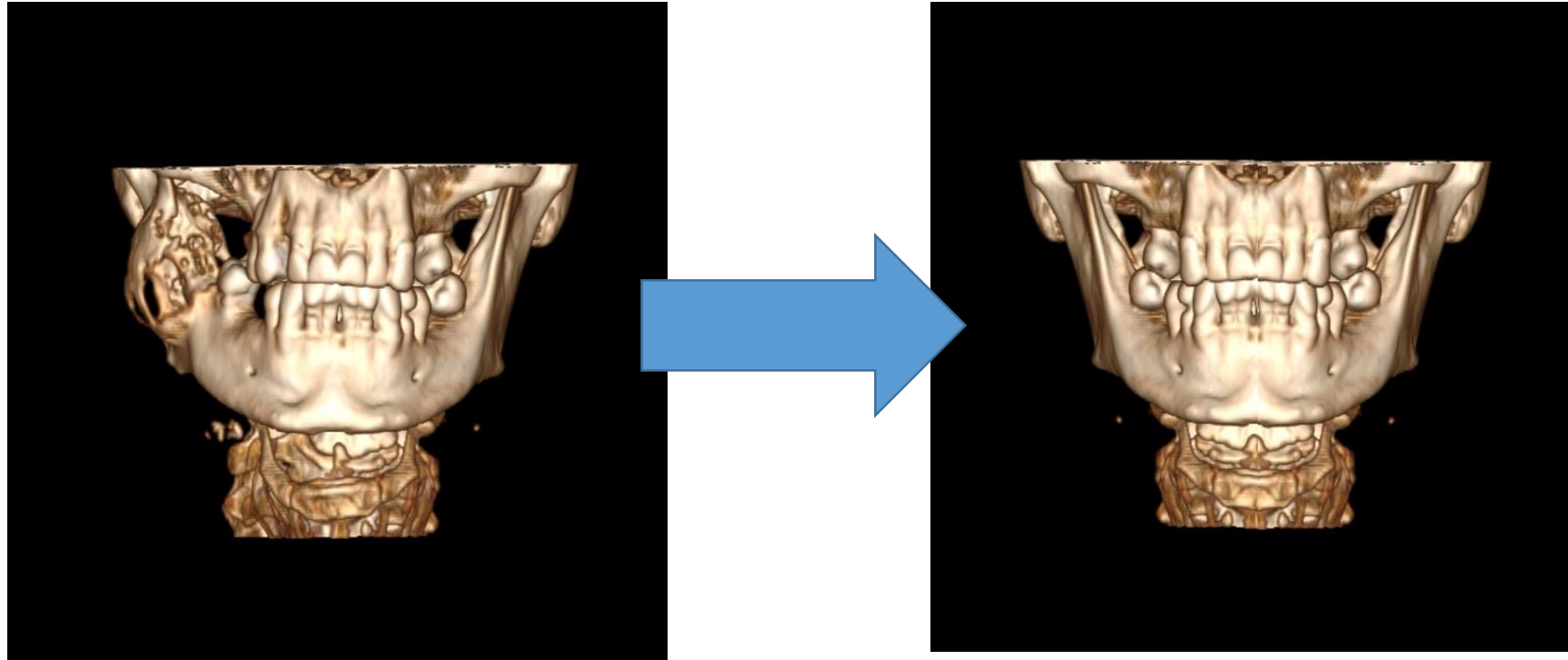
- Creating projects in a cloud and using an idea of distance communication give the possibility of interdisciplinary cooperation between medical academic centres and technical institutions.
- Transferring the communication and work to the cloud reduces the time of the project's creation and realization.
- Working in clouds enables diagnostics and medical consultation, treatment planning, creating new solutions and methods, discussing the use of biocompatible materials etc.

Case Study

- The patient comes to the doctor having the asymmetry within the right side of the face, it is probably tumor.
- MDCT - MultiDetector ComputedTomography examination must have been done.

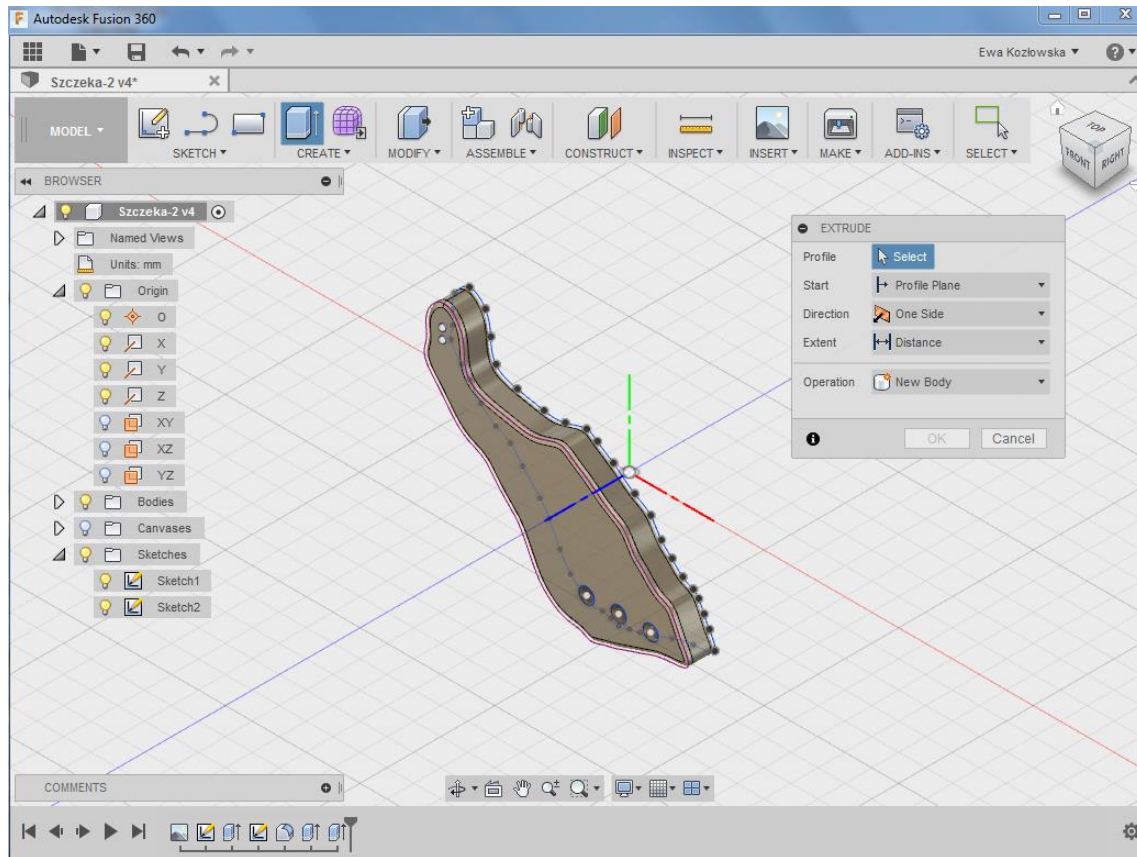


Modelling treatment - surgeons and engineers propose a solution that will remove the tumor

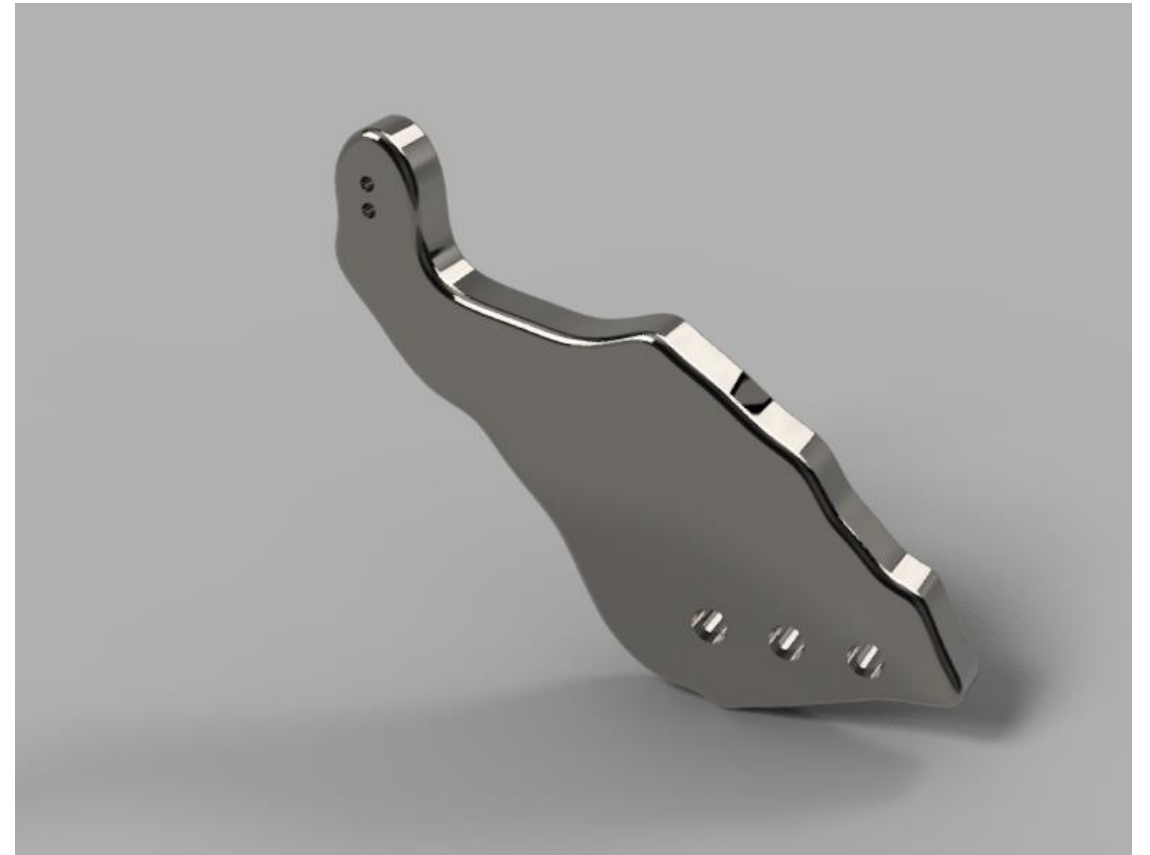


Designing and printing the implant

Designing in Fusion 360



3D printing



From concept to prototype, an engineer is coming to a doctor... Famelab- 3 minutes presentation

http://www.kre.edu.pl/kre_2016/

**Kongres
Rozwoju
Edukacji**

www.kre.edu.pl

From EMMA and Millionlights to moodlecloud

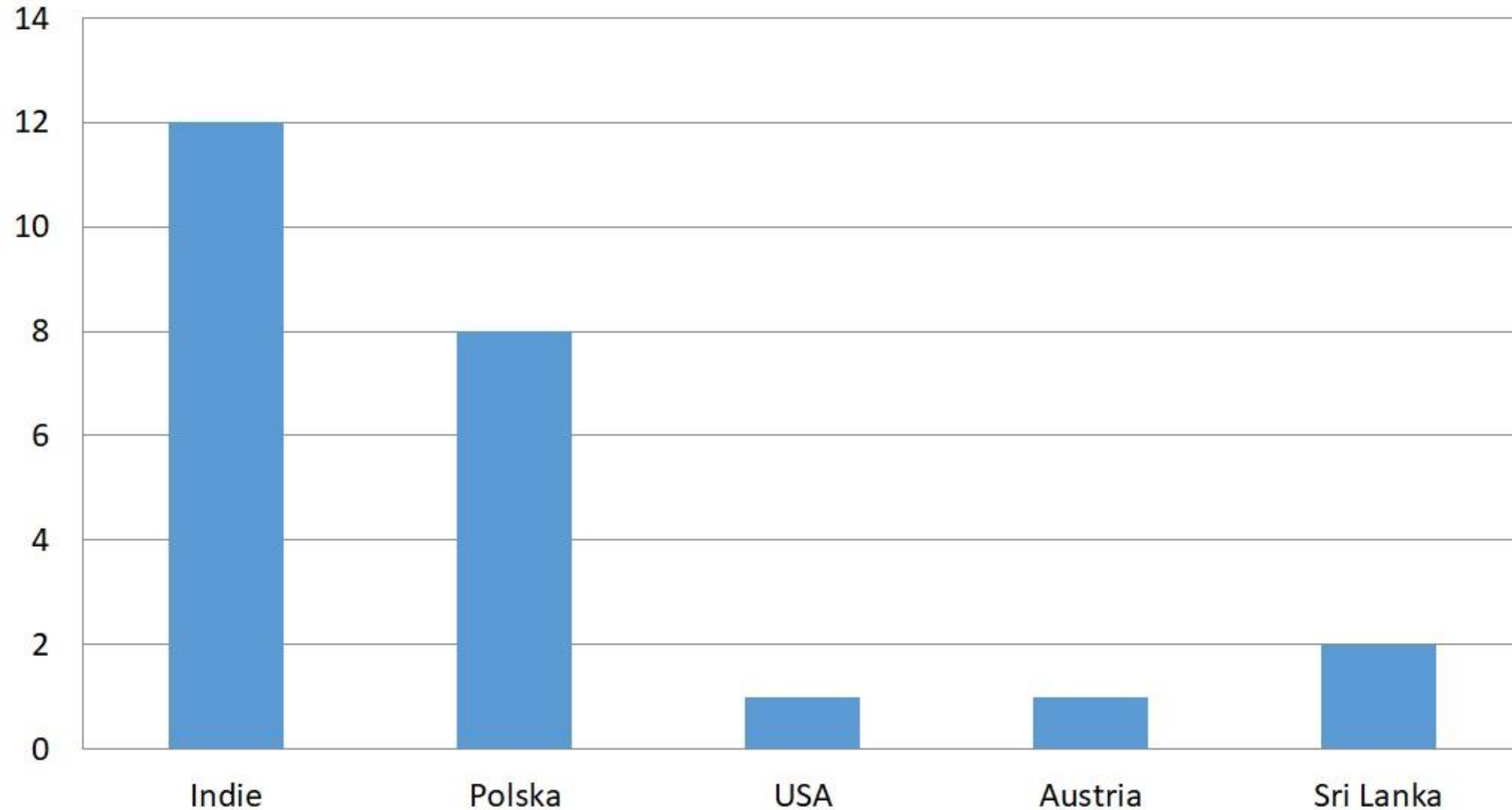


EUROPEAN
MULTIPLE
MOOC
AGGREGATOR



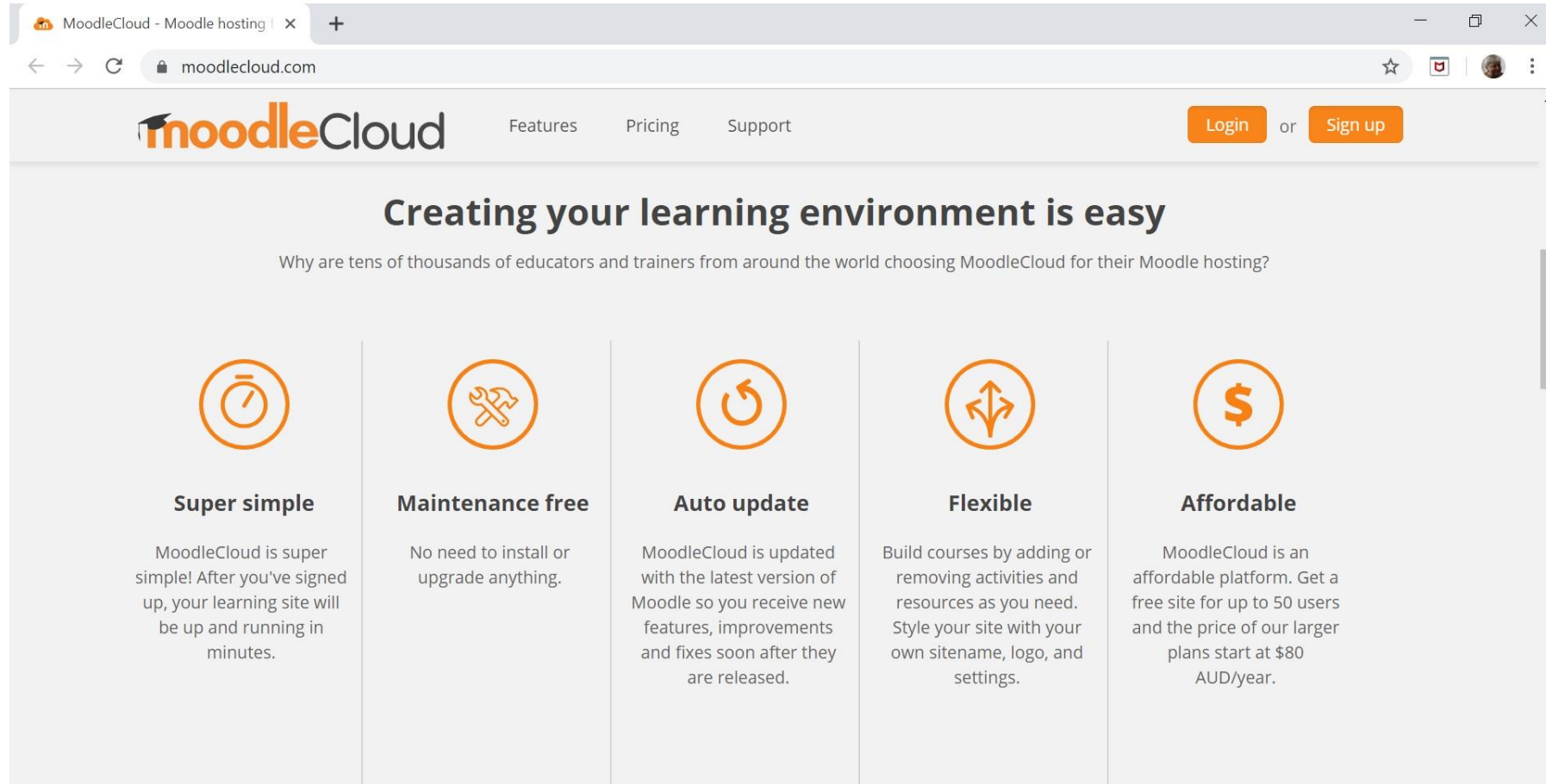
moodlecloud

Number of participants of the MOOC - Autodesk Fusion 360



About moodlecloud

<https://moodlecloud.com/>

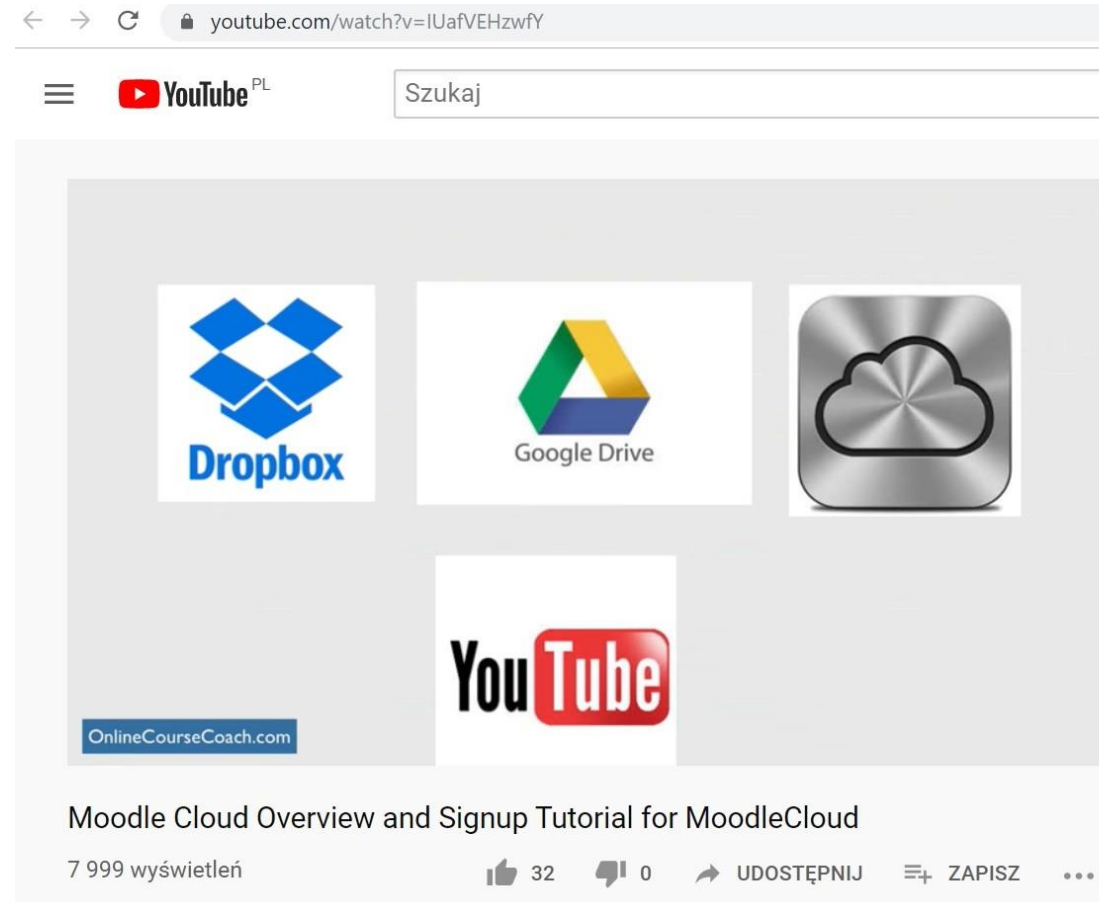


The screenshot shows the MoodleCloud website homepage. At the top, there is a navigation bar with the MoodleCloud logo, links for 'Features', 'Pricing', and 'Support', and buttons for 'Login' and 'Sign up'. The main heading is 'Creating your learning environment is easy', followed by the subtext 'Why are tens of thousands of educators and trainers from around the world choosing MoodleCloud for their Moodle hosting?'. Below this, there are five columns, each with an icon and a feature description:

- Super simple**: MoodleCloud is super simple! After you've signed up, your learning site will be up and running in minutes.
- Maintenance free**: No need to install or upgrade anything.
- Auto update**: MoodleCloud is updated with the latest version of Moodle so you receive new features, improvements and fixes soon after they are released.
- Flexible**: Build courses by adding or removing activities and resources as you need. Style your site with your own sitename, logo, and settings.
- Affordable**: MoodleCloud is an affordable platform. Get a free site for up to 50 users and the price of our larger plans start at \$80 AUD/year.

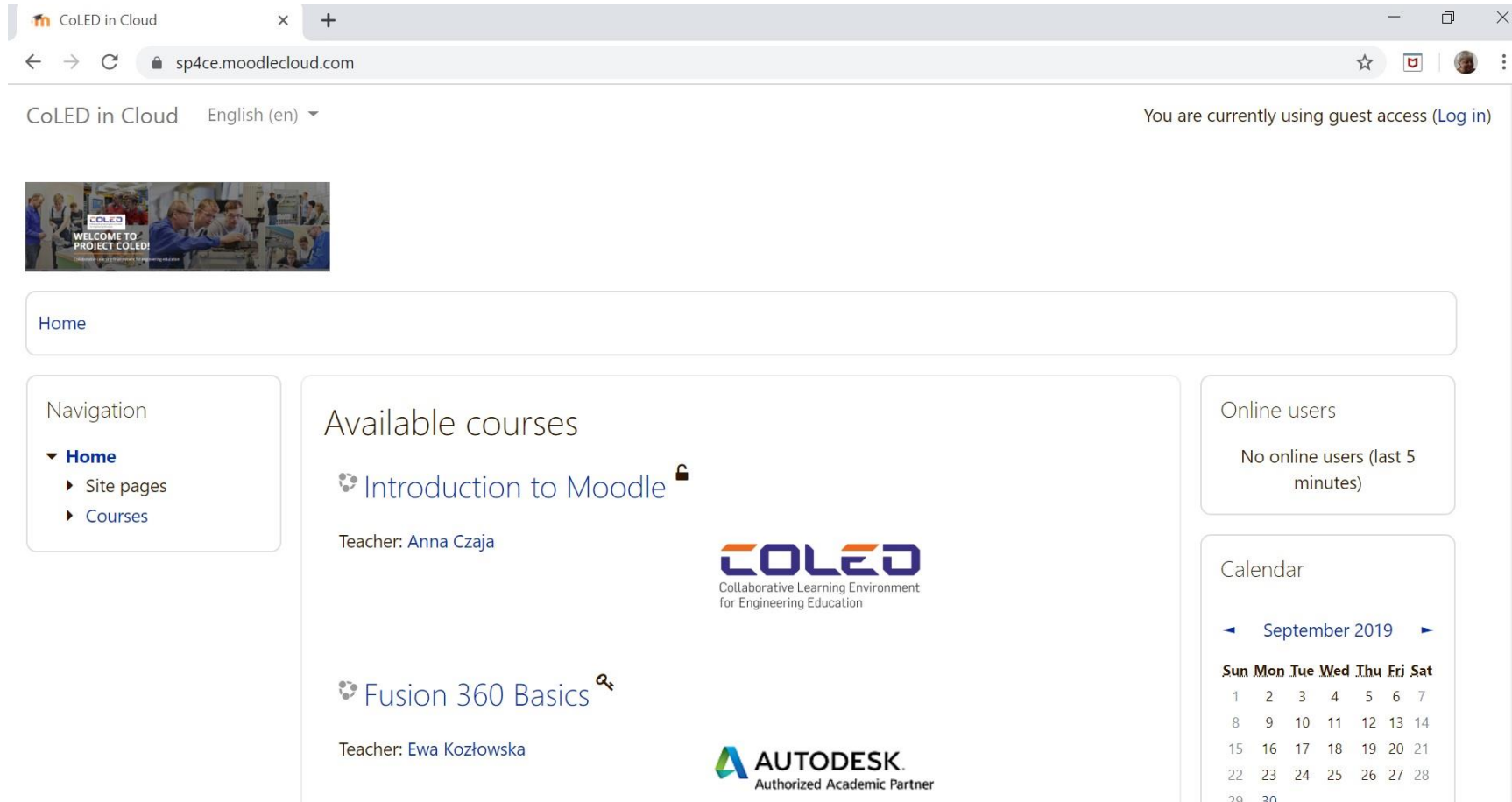
Introduction to moodlecloud

<https://www.youtube.com/watch?v=IUafVEHzwfY>



The screenshot shows a YouTube video player interface. At the top, the browser address bar displays the URL `youtube.com/watch?v=IUafVEHzwfY`. Below the address bar is the YouTube navigation bar, including the YouTube logo and a search bar with the text "Szukaj". The main content area features a video thumbnail with four icons: Dropbox, Google Drive, a cloud icon, and the YouTube logo. A small blue box in the bottom left corner of the thumbnail contains the text "OnlineCourseCoach.com". Below the thumbnail, the video title "Moodle Cloud Overview and Signup Tutorial for MoodleCloud" is displayed. At the bottom of the video player, the view count "7 999 wyświetleń" is shown, along with icons for likes (32), dislikes (0), share ("UDOSTĘPNIJ"), save ("ZAPISZ"), and a menu icon.

Welcome to CoLED in




CoLED in Cloud English (en) You are currently using guest access (Log in)


Home


Navigation


- Home
 - Site pages
 - Courses

Available courses

 Introduction to Moodle
Teacher: Anna Czaja


Collaborative Learning Environment
for Engineering Education

 Fusion 360 Basics
Teacher: Ewa Kozłowska


Authorized Academic Partner

Online users

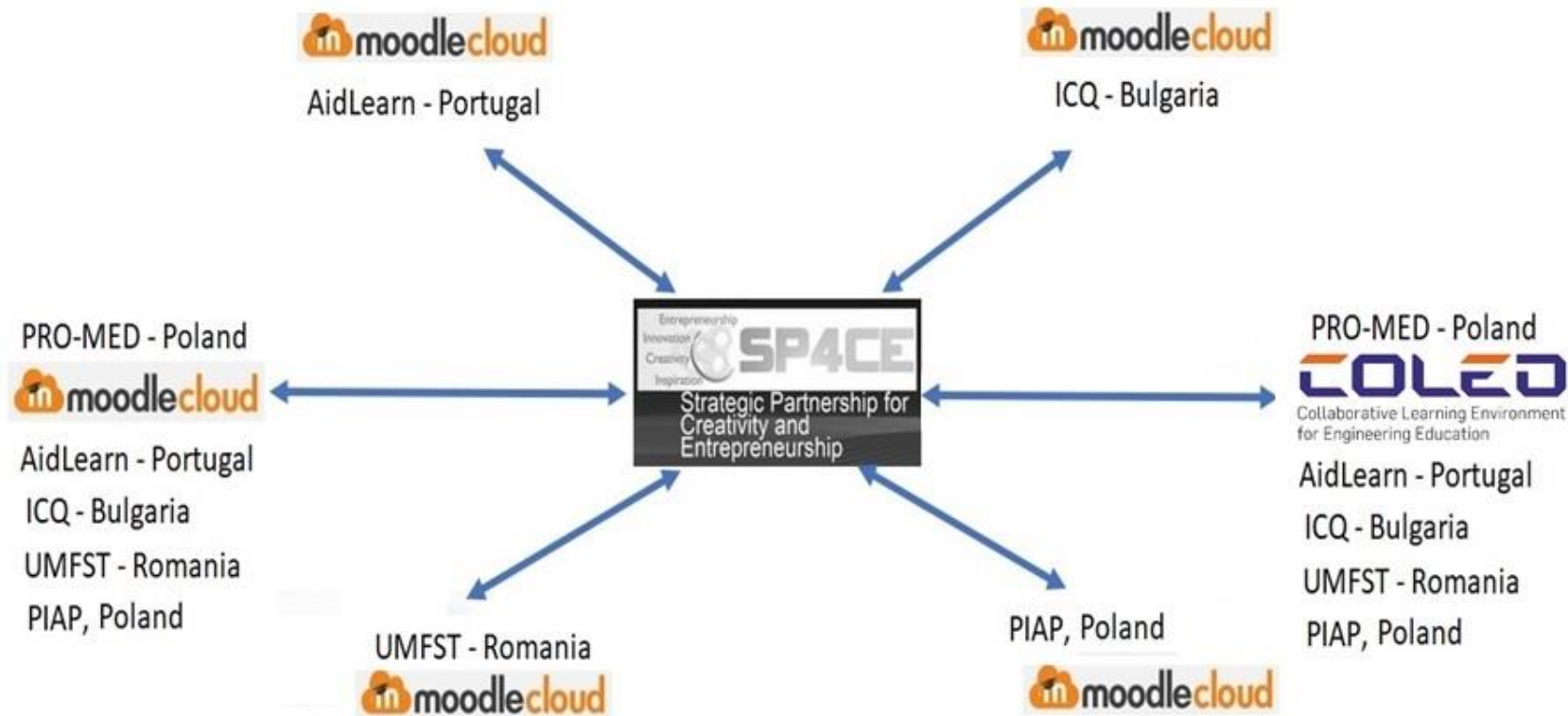
No online users (last 5 minutes)

Calendar

September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

The concept of CoLED system





AUTODESK UNIVERSITY



WYDZIAŁ MECHANICZNY



WYDZIAŁ ZARZĄDZANIA I EKONOMII



Erasmus+



Collaborative Learning Environment for Engineering Education



Welcome to ERASMUS + CoLED

<http://coled-project.eu/>



🏠 ABOUT THE PROJECT ▾ PROJECT RESULTS ▾ PROJECT MEETINGS AND EVENTS ▾ PROJECT PARTNERSHIP ▾



COLED PROJECT MATERIALS



CoLED project factsheet

View the initial CoLED factsheet to find out more about the project



CoLED project leaflet

View the official CoLED project leaflet with description of project activities and expected results




First project newsletter

View the progress of the CoLED implementation during the first 6-month period



Second project newsletter

View the progress of the CoLED implementation during the second 6-month period

A close-up photograph of a blue ballpoint pen writing the words "thank you" in a cursive script on a white piece of paper. The pen is positioned diagonally from the top right towards the bottom left, with its tip resting on the end of the word "you".

thank
you

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