

COLEO

Collaborative Learning Environment for engineering education

Collaborative Learning Environment for engineering education

Project Ref. No: 2018-1-PL01-KA202-050777



IO3 – Collaborative Training Platform

The screenshot shows the COLED website interface. At the top, there is a dark navigation bar with a UK flag, social media icons for Twitter and Facebook, and the COLED logo with the tagline 'Collaborative Learning Environment for Engineering Education'. Below this is a main navigation menu with options: 'ABOUT THE PROJECT', 'PROJECT RESULTS', 'PROJECT MEETINGS AND EVENTS', and 'PROJECT PARTNERSHIP'. The 'PROJECT RESULTS' section is expanded, showing a list of items: 'CoLED Teaching Methodology', 'CoLED Guidelines', 'Collaborative Training Platform' (highlighted in orange), and 'CoLED Automation for Manufacturing Training'. The 'Collaborative Training Platform' page is displayed, featuring a heading 'Project results Collaborative Training Platform' and a paragraph describing it as an innovative ICT platform. A list of features follows, including course personalization, engagement features, feedback mechanisms, differentiation, content delivery, mobile accessibility, and online/offline access.

PROJECT RESULTS

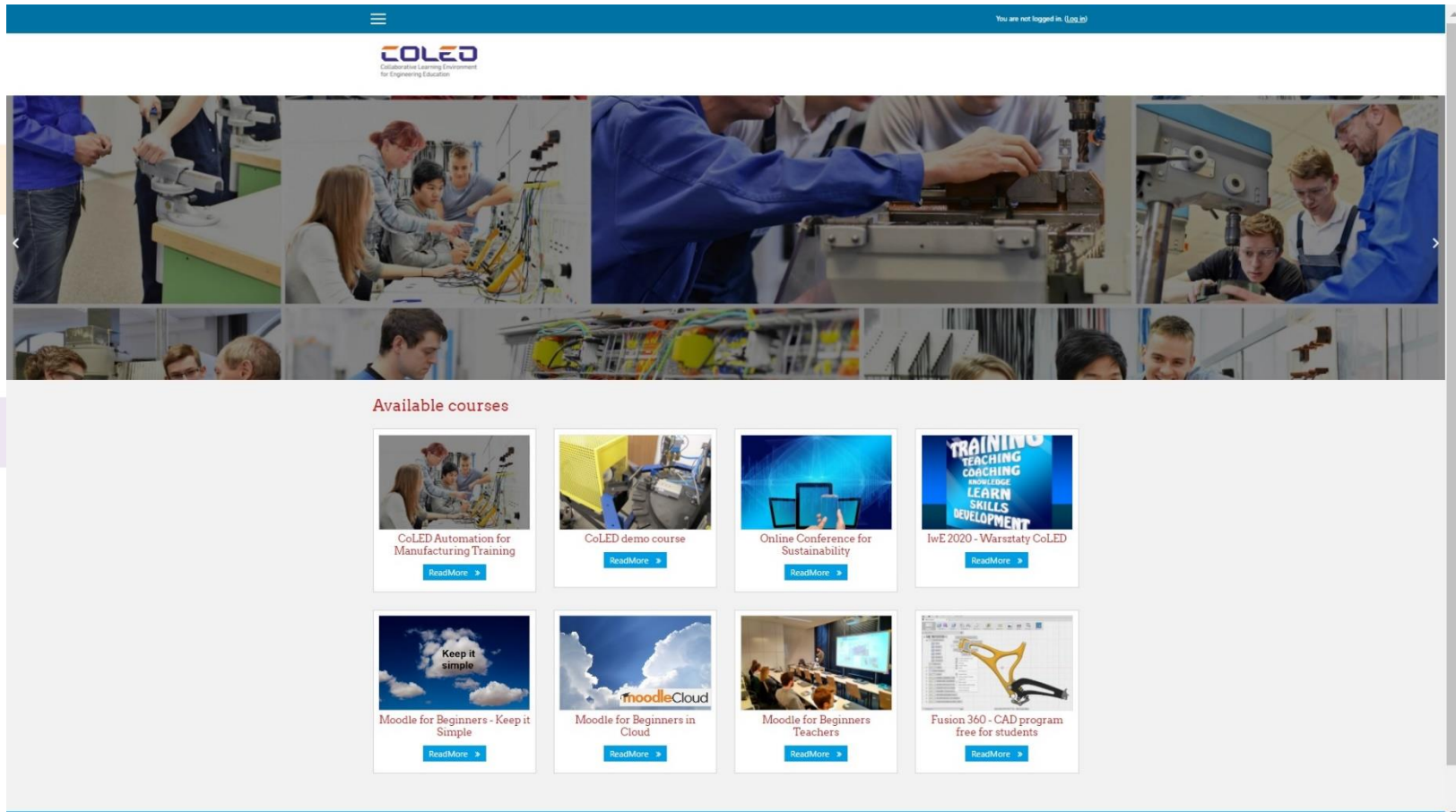
- CoLED Teaching Methodology >
- CoLED Guidelines >
- Collaborative Training Platform >**
- CoLED Automation for Manufacturing Training >

Project results Collaborative Training Platform

Innovative ICT platform supporting collaborative learning, customized and adapted to the needs of the project target groups. Platform specific features will include:

- Course materials and contents personalization;
- Engagement & wide collaboration features;
- In-depth discussions and feedback on the learning contents;
- Differentiation & personalization;
- Trainers can easily find and deliver content and customize materials to address specific learning needs;
- Accessibility & portability by mobile device also;
- Online/offline access to contents, notes, and collaboration tools will ensure that trainers and participants will engage the learning materials from multiple access points.


IO3 – Collaborative Training Platform




COLED
Collaborative Learning Environment
for Engineering Education

You are not logged in. (Logout)


Available courses

- 


CoLED Automation for Manufacturing Training

[ReadMore >](#)
- 


CoLED demo course

[ReadMore >](#)
- 


Online Conference for Sustainability

[ReadMore >](#)
- 


IwE 2020 - Warsztaty CoLED

[ReadMore >](#)
- 


Moodle for Beginners - Keep it Simple

[ReadMore >](#)
- 

Moodle for Beginners in Cloud

[ReadMore >](#)
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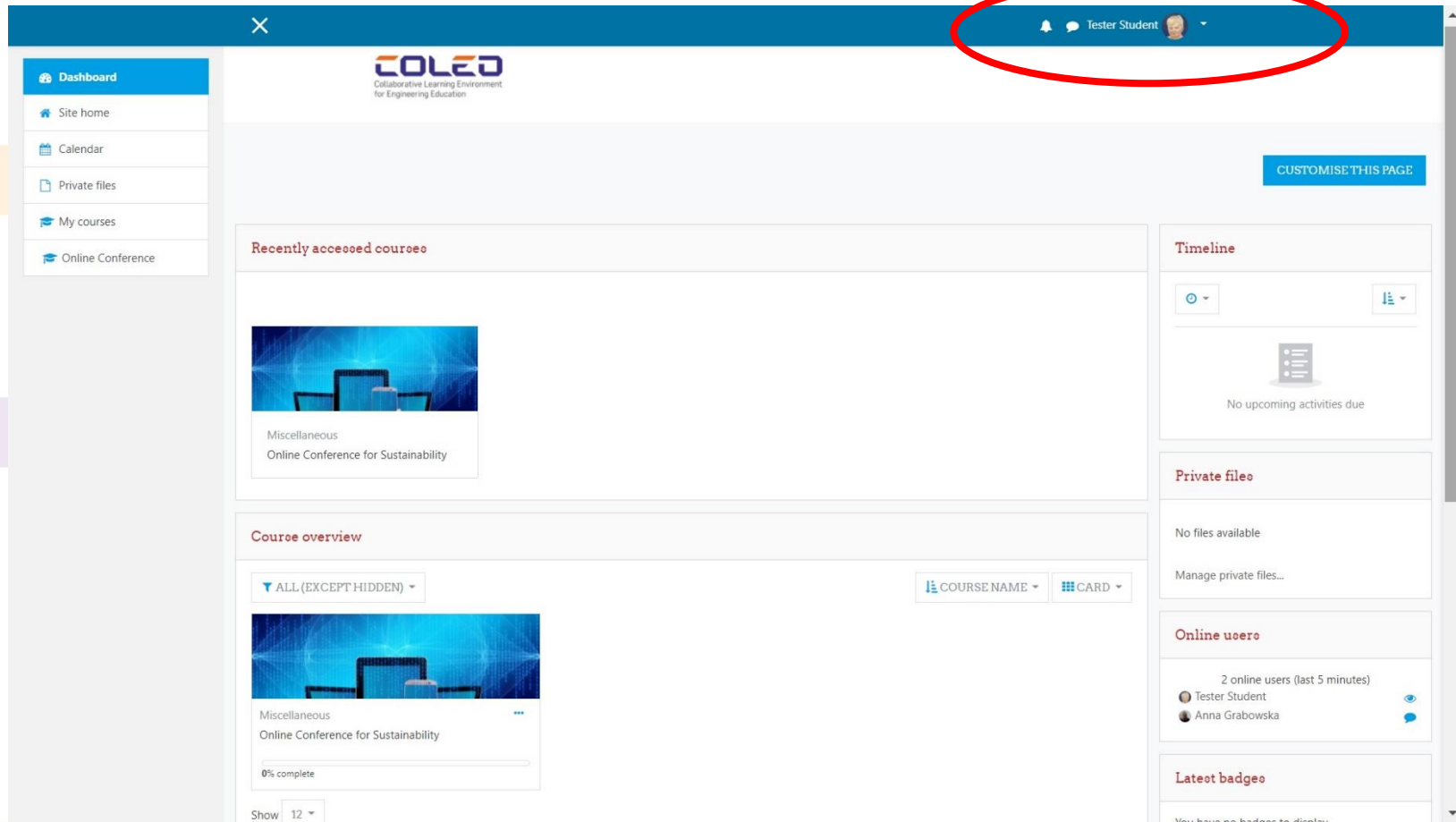
Moodle for Beginners Teachers

[ReadMore >](#)
- 

Fusion 360 - CAD program free for students

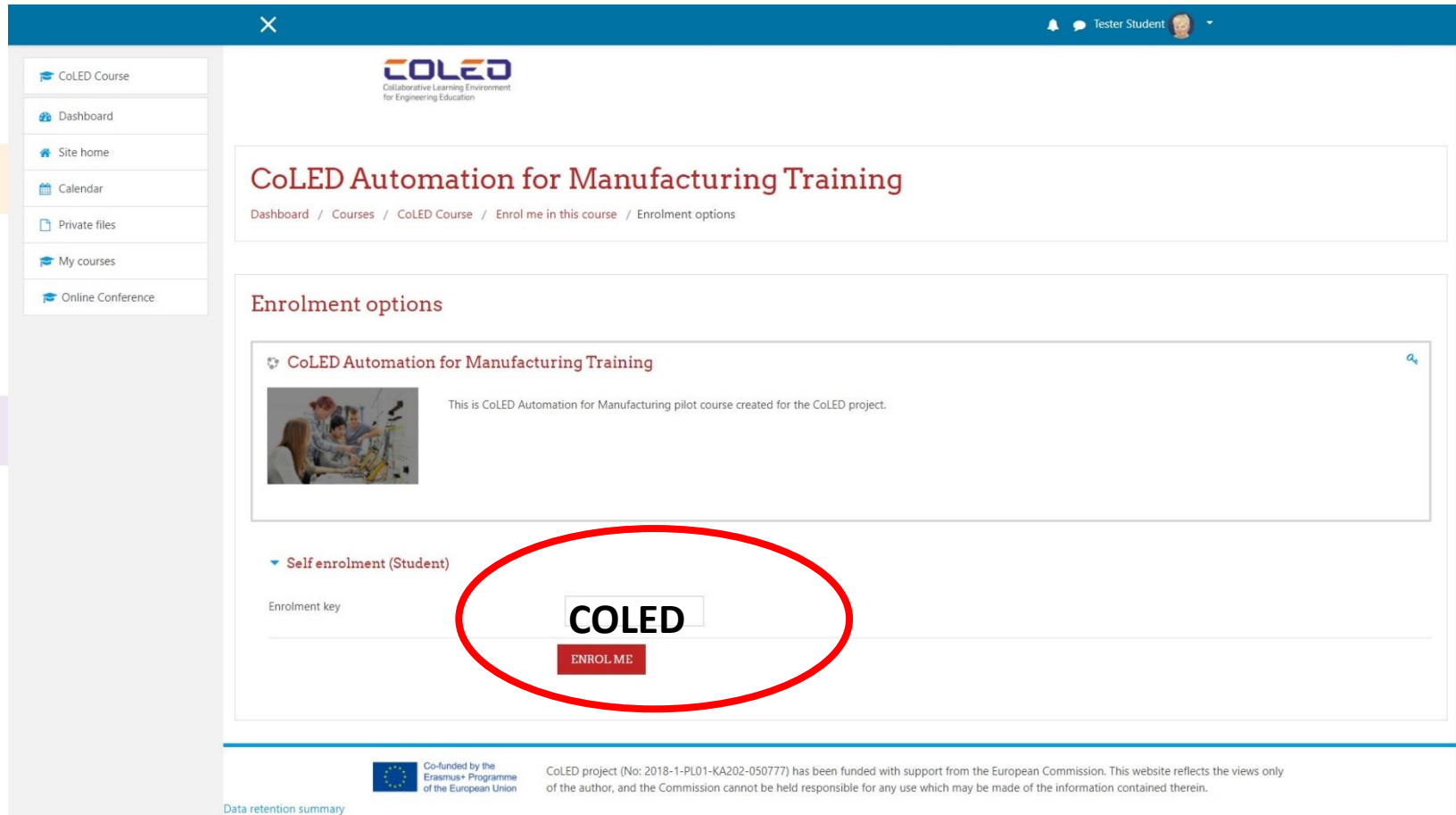
[ReadMore >](#)

IO3 – Collaborative Training Platform



The screenshot displays the COLED dashboard interface. The top navigation bar is blue and contains a close button (X), the COLED logo, and a user profile section. The user profile section, highlighted with a red circle, includes a notification bell icon, a chat icon, the name 'Tester Student', and a profile picture. Below the navigation bar, the dashboard is divided into several sections: a left sidebar with navigation links (Dashboard, Site home, Calendar, Private files, My courses, Online Conference), a main content area with 'Recently accessed courses' and 'Course overview' sections, and a right sidebar with 'Timeline', 'Private file', 'Online users', and 'Latest badges' sections. The 'Recently accessed courses' section shows a course titled 'Miscellaneous Online Conference for Sustainability'. The 'Course overview' section shows a list of courses with a filter set to 'ALL (EXCEPT HIDDEN)' and a view toggle set to 'CARD'. The 'Timeline' section shows 'No upcoming activities due'. The 'Private file' section shows 'No files available'. The 'Online users' section shows '2 online users (last 5 minutes)' with avatars for 'Tester Student' and 'Anna Grabowska'. The 'Latest badges' section is partially visible at the bottom.

IO3 – Collaborative Training Platform



The screenshot shows the CoLED platform interface. On the left is a navigation menu with items: CoLED Course, Dashboard, Site home, Calendar, Private files, My courses, and Online Conference. The main content area has a blue header with a close button (X) and a user profile for 'Tester Student'. Below the header is the CoLED logo and the course title 'CoLED Automation for Manufacturing Training'. A breadcrumb trail reads: Dashboard / Courses / CoLED Course / Enrol me in this course / Enrolment options. The 'Enrolment options' section features a course card with a photo of students in a lab and the text: 'This is CoLED Automation for Manufacturing pilot course created for the CoLED project.' Below the card is a 'Self enrolment (Student)' section with an 'Enrolment key' input field containing the text 'COLED' and a red 'ENROL ME' button. A red oval highlights the 'COLED' text and the 'ENROL ME' button. At the bottom, there is a footer with the European Union flag and text: 'Co-funded by the Erasmus+ Programme of the European Union' and 'CoLED project (No: 2018-1-PL01-KA202-050777) has been funded with support from the European Commission. This website reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.' A 'Data retention summary' link is also present.

IO3 – Collaborative Training Platform

The screenshot displays the CoLED platform interface for the course "CoLED Automation for Manufacturing Training". The interface includes a sidebar with navigation options such as "Participants", "Badges", "Competencies", "Grades", "Welcome to Erasmus+ CoLED course", "Training Materials", "Quiz", "What was the most interesting in the course?", "Certificates", "Thank you for exploring Erasmus+ CoLED course", "Dashboard", "Site home", "Calendar", "Private files", and "My courses". The main content area features a "To do list for testers" section, which is highlighted by a red oval. This section includes a video player showing a person at a computer with the text "LEARNING PLATFORM" overlaid. The "To do list for testers" includes the following items:

1. Start from watching a short film about CoLED
2. Introduce yourself on forum
3. Explore Training Materials
4. Take part in a quiz
5. Share your opinion about the course on forum
6. Earn at least one badge and a certificate

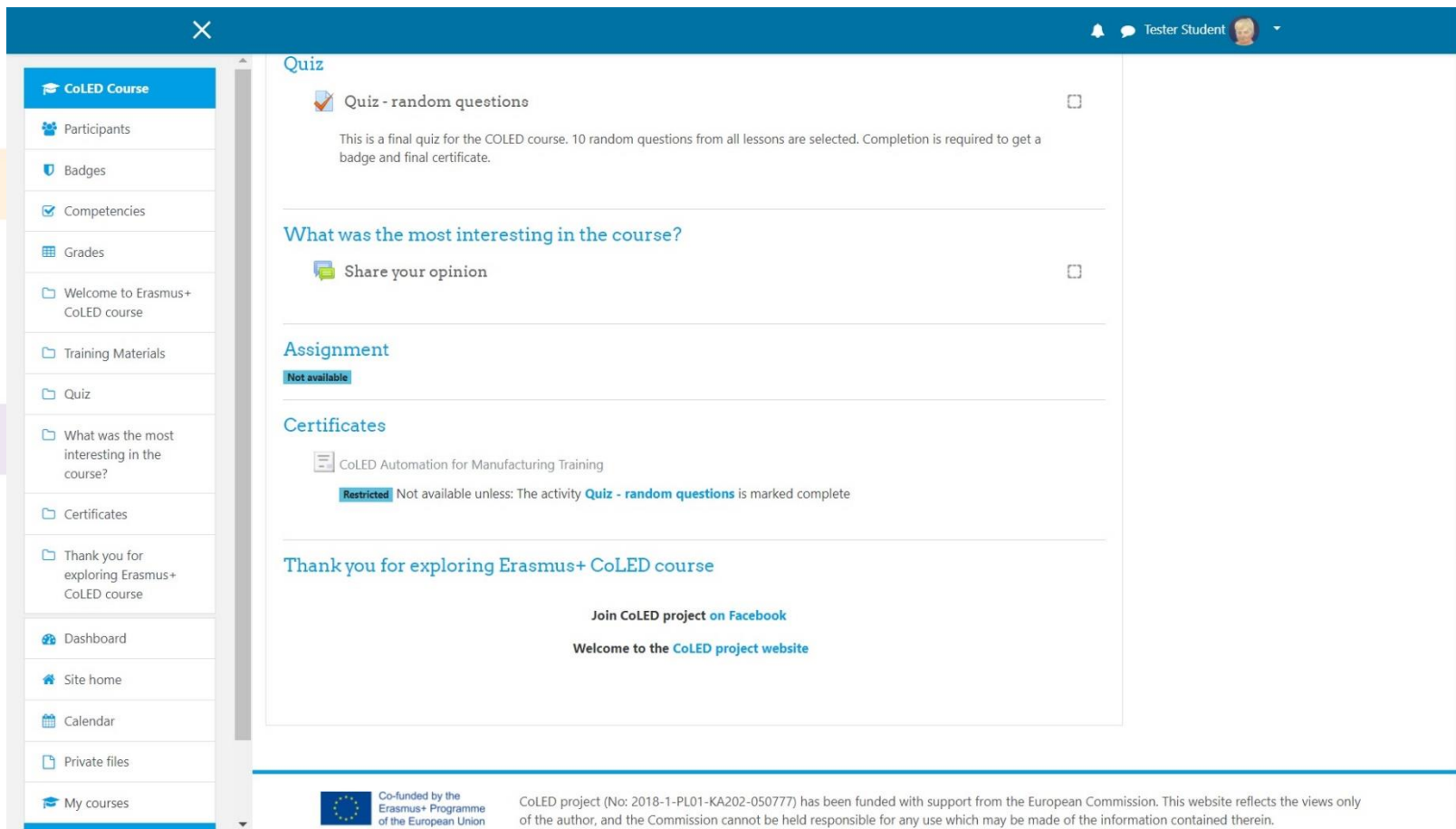
On the right side of the interface, there are two widgets: "Online users" showing 1 online user (last 5 minutes) and "Level up!" showing a progress bar and a star with the number 1.

IO3 – Collaborative Training Platform

The screenshot displays the CoLED training platform interface. On the left is a sidebar menu with the following items: CoLED Course (selected), Participants, Badges, Competencies, Grades, Welcome to Erasmus+ CoLED course, Training Materials, Quiz, What was the most interesting in the course?, Certificates, Thank you for exploring Erasmus+ CoLED course, Dashboard, Site home, Calendar, Private files, My courses, CoLED Course (repeated), and Online Conference. The main content area is titled 'Consultation online' and features a 'Training Materials' section. This section contains several items, each with a document icon and a title:

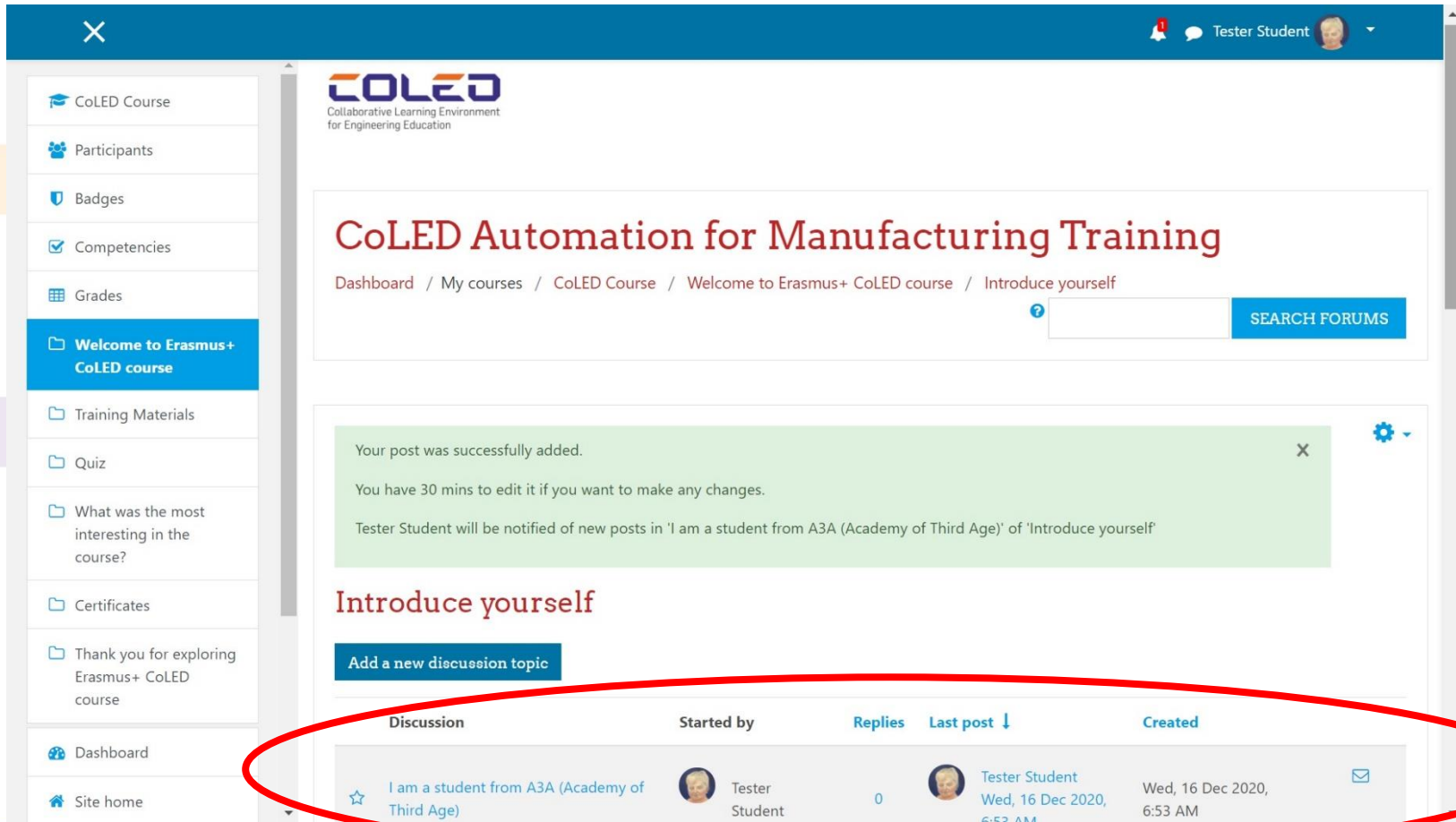
- Introduction to automation**: The main aim of this unit is to introduce basic terms regarding automation and show why the automation is so important for nowadays industry. In the lesson are presented the different levels of automation.
- Needs for Automation & Robotics in SME**: Industrial robots are used to replace people in physically demanding and high-risk jobs. They most often perform hazardous tasks (e.g., feeding parts to a press, various operations in a potentially intoxicating chemical environment), monotonous tasks (e.g., assembly operations on an assembly line), or operations requiring a high physical strength (e.g. loading or unloading heavy loads) or exceptional accuracy (e.g. precision processing of materials). On the other hand, the use of robots aims to increase production volume by increasing labor productivity as well as reducing production costs. The lesson describes typical applications of industrial robots and how they address basics needs for A&R systems in production SMEs.
- Automation objectives, identification of goals**: This lesson shortly introduces automation objectives and identifies the goals that can convince the manufacturer to go in that direction. It shows also what is important to consider before starting the process. During the lesson we will emphasize the fact that automation is much more than buying equipment and processes from suppliers. Successful implementation of an automation program in a company must start with a clear definition of its business needs. So it doesn't start with buying equipment, but with striving for the best possible results, and automation is only a means to achieve them.
- Automation advantages and constraints**: This lesson describes the advantages and limitations of industrial automation. Automation and robotization of production processes becomes the norm in plants and factories and have serious advantages, which prove the benefits of implementing these solutions. To successfully implement automation the company management must understand what are the usual errors during this process and how to avoid them.
- Identification of Training Needs**: The main aim of this lesson is to show why training is essential for the smooth operation and development of production companies. Training is one of the forms of investment in human capital development, aimed at, among others, improving the quality of work performed. In order they can bring the expected results - and, consequently, to be effective - they should meet a number of conditions discussed in this lesson. The lesson also discusses the most popular and most effective training options at present, key factors determining the success of training, answers to questions on the justification of training costs and presents a typical argumentation - why not training.
- Indicators of implementation, monitoring and evaluation**: This unit is an introduction to the indicators of implementation, monitoring and evaluation of production systems. It provides basic information about performance of measurement supported by key performance indicators.

IO3 – Collaborative Training Platform





The screenshot displays the CoLED course interface. On the left is a navigation menu with items: CoLED Course, Participants, Badges, Competencies, Grades, Welcome to Erasmus+ CoLED course, Training Materials, Quiz, What was the most interesting in the course?, Certificates, Thank you for exploring Erasmus+ CoLED course, Dashboard, Site home, Calendar, Private files, and My courses. The main content area is titled 'Quiz' and contains a 'Quiz - random questions' section with a description: 'This is a final quiz for the COLED course. 10 random questions from all lessons are selected. Completion is required to get a badge and final certificate.' Below this is a question: 'What was the most interesting in the course?' with a 'Share your opinion' button. The 'Assignment' section is marked 'Not available'. The 'Certificates' section shows 'CoLED Automation for Manufacturing Training' with a 'Restricted' status and a note: 'Not available unless: The activity Quiz - random questions is marked complete'. At the bottom of the main area, there is a 'Thank you for exploring Erasmus+ CoLED course' message with links to 'Join CoLED project on Facebook' and 'Welcome to the CoLED project website'. The footer contains the Erasmus+ logo, the text 'Co-funded by the Erasmus+ Programme of the European Union', and a disclaimer: 'CoLED project (No: 2018-1-PL01-KA202-050777) has been funded with support from the European Commission. This website reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.'

IO3 – Collaborative Training Platform



The screenshot displays the CoLED platform interface. On the left is a navigation sidebar with options like 'CoLED Course', 'Participants', 'Badges', 'Competencies', 'Grades', 'Welcome to Erasmus+ CoLED course', 'Training Materials', 'Quiz', 'Certificates', and 'Dashboard'. The main content area shows the course title 'CoLED Automation for Manufacturing Training' and a breadcrumb trail: 'Dashboard / My courses / CoLED Course / Welcome to Erasmus+ CoLED course / Introduce yourself'. A search bar with the text 'SEARCH FORUMS' is visible. A green notification box states: 'Your post was successfully added. You have 30 mins to edit it if you want to make any changes. Tester Student will be notified of new posts in 'I am a student from A3A (Academy of Third Age)' of 'Introduce yourself''. Below this is the 'Introduce yourself' forum section with an 'Add a new discussion topic' button. A table of discussions is shown at the bottom, with a red circle highlighting the first row.

Discussion	Started by	Replies	Last post ↓	Created
I am a student from A3A (Academy of Third Age)	 Tester Student	0	 Tester Student Wed, 16 Dec 2020, 6:53 AM	Wed, 16 Dec 2020, 6:53 AM

IO3 – Collaborative Training Platform

The screenshot displays the CoLED training platform interface. On the left is a navigation sidebar with a 'CoLED Course' header and several menu items: Participants, Badges, Competencies, Grades, Welcome to Erasmus+ CoLED course, Training Materials, Quiz, What was the most interesting in the course?, Certificates, Thank you for exploring Erasmus+ CoLED course, Dashboard, and Site home. The main content area is titled 'Training Materials' and lists several units: 'Introduction to automation', 'Needs for Automation', 'Automation objectives, identification of goals', and 'Automation advantages and constrains'. A white pop-up window is centered over the 'Needs for Automation' unit, displaying the text 'Congratulations!' in red, 'You have reached level 2!' in black, a green star with the number '2' inside, and a blue button labeled 'COOL, THANKS!'. The top right of the interface shows a user profile for 'Tester Student'.

IO3 – Collaborative Training Platform

The screenshot displays the CoLED training platform interface. On the left is a navigation sidebar with options: CoLED Course, Participants, Badges, Competencies, Grades, Welcome to Erasmus+ CoLED course, Training Materials, Quiz, What was the most interesting in the course?, Certificates, Thank you for exploring Erasmus+ CoLED course, Dashboard, and Site home. The main content area shows the course title 'CoLED Automation for M...', a breadcrumb 'Dashboard / My courses / CoLED Course', and a 'Welcome to Erasmus+ CoLED course' message. Below this is a 'To do list for testers:' with six items: 1. Start from watching a short film about CoLED (with a video player showing a man at a computer and the text 'LEARNING PLATFORM'), 2. Introduce yourself on forum, 3. Explore Training Materials, 4. Take part in a quiz, 5. Share your opinion about the course on forum, and 6. Earn at least one badge and a certificate. A notification pop-up is visible, showing two 'Congratulations! You just earned a badge!' messages. On the right, there is a user profile for 'Tester Student' and a progress indicator showing '165 XP' and '111 XP to go'.

IO3 – Collaborative Training Platform

The screenshot displays the CoLED platform interface. On the left is a navigation sidebar with options like 'CoLED Course', 'Participants', 'Badges', 'Competencies', 'Grades', 'Welcome to Erasmus+ CoLED course', 'Training Materials', 'Quiz', 'What was the most interesting in the course?', 'Certificates', 'Thank you for exploring Erasmus+ CoLED course', 'Dashboard', and 'Site home'. The 'Quiz' option is highlighted. The main content area shows a 'Quiz - random questions Summary of attempt' page. A red oval highlights the title 'Quiz - random questions Summary of attempt'. Below the title is a table with 10 rows, each representing a question. The 'Status' column for all questions indicates 'Answer saved'. At the bottom of the table are two buttons: 'RETURN TO ATTEMPT' and 'SUBMIT ALL AND FINISH'. On the right side, there is a 'Quiz navigation' panel with a grid of question numbers (1-10) and a 'Finish attempt ...' link.

Question	Status
1	Answer saved
2	Answer saved
3	Answer saved
4	Answer saved
5	Answer saved
6	Answer saved
7	Answer saved
8	Answer saved
9	Answer saved
10	Answer saved

IO3 – Collaborative Training Platform

The screenshot displays the user interface for the 'CoLED Automation for Manufacturing Training' course. The top navigation bar includes a close button, a notification bell, and the user profile 'Tester Student'. The left sidebar contains a menu with options like 'CoLED Course', 'Participants', 'Badges', 'Competencies', 'Grades', 'Welcome to Erasmus+ CoLED course', 'Training Materials', 'Quiz', 'What was the most interesting in the course?', 'Certificates', 'Thank you for exploring Erasmus+ CoLED course', 'Dashboard', 'Site home', 'Calendar', and 'Private files'. The main content area shows the course title and a breadcrumb trail: 'Dashboard / My courses / CoLED Course / Quiz / Quiz - random questions'. Below this, a summary box provides quiz statistics: 'Started on' Wednesday, 16 December 2020, 6:57 AM; 'State' Finished; 'Completed on' Wednesday, 16 December 2020, 7:01 AM; 'Time taken' 3 mins 54 secs; and 'Grade' 9.17 out of 10.00 (92%).

Two quiz questions are visible:

- Question 1:** 'Industrial robots are...' (Correct). Mark 1.00 out of 1.00. Select one:
 - a. can increase safety of working personnel. ✓
 - b. too expensive for SME.
 - c. can totally replace working personnel in each field.
 Feedback: 'Your answer is correct. The correct answer is: can increase safety of working personnel.'
- Question 2:** 'Overall Equipment Effectiveness is calculated as a product of:' (Correct). Mark 1.00 out of 1.00. Select one or more:
 - a. Quality. ✓
 - b. Reliability. ✗
 - c. Efficiency. ✓

The right sidebar features 'Quiz navigation' with a progress indicator for 10 questions (questions 1-8 are completed, 9 is current, 10 is next) and options to 'Show one page at a time' and 'Finish review'.

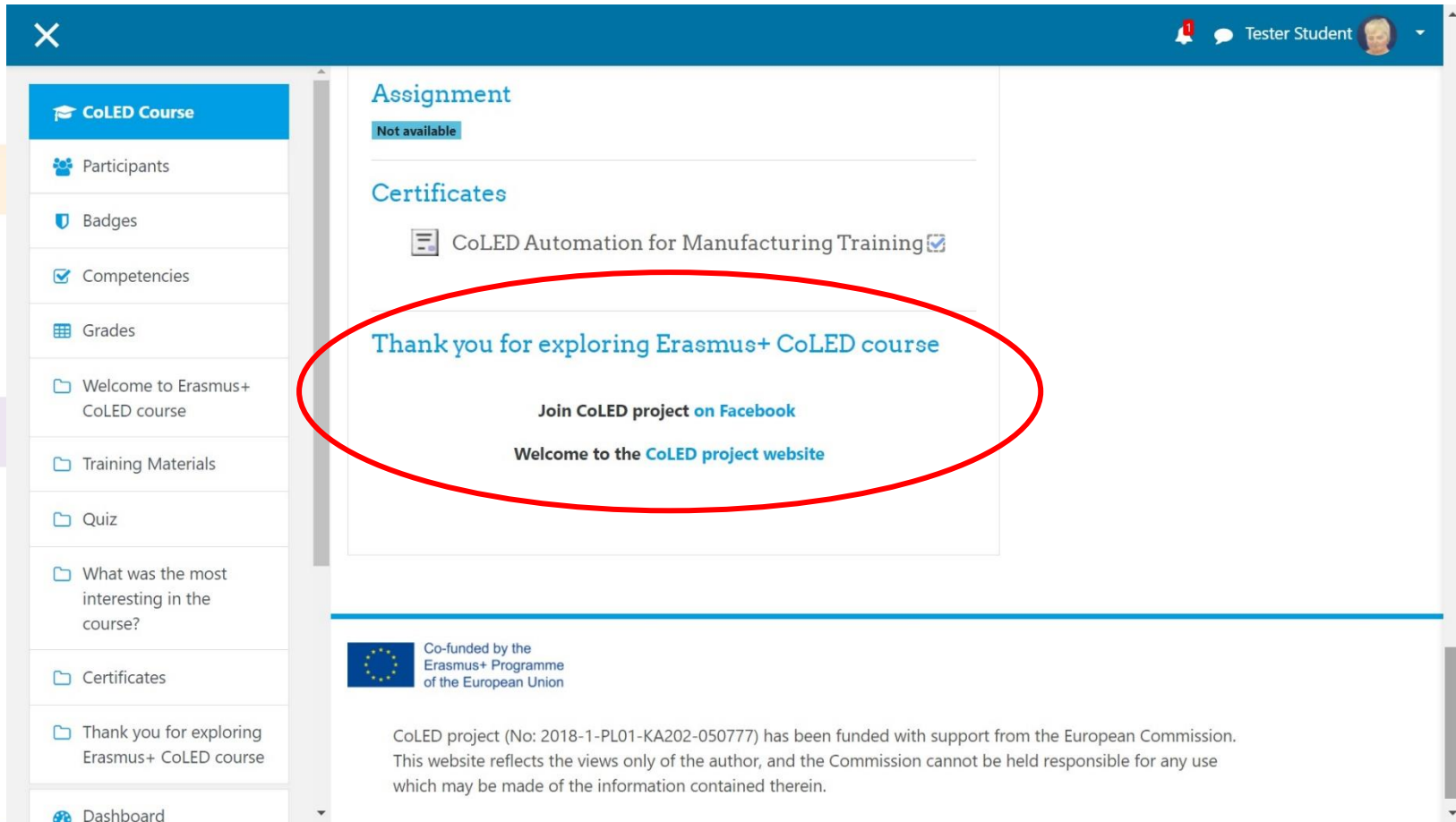
IO3 – Collaborative Training Platform

The screenshot displays the COLED training platform interface. A central pop-up window reads "Congratulations! You have reached level 3!" with a purple star containing the number 3 and a "COOL, THANKS!" button. The background interface includes a sidebar with navigation options like "CoLED Course", "Participants", "Badges", and "Grades". The main content area features the COLED logo, a "To do list for testers" with six items, a video player with the text "LEARNING PLATFORM", and a progress section showing "Level up!" with a star and the number 3, and a progress bar indicating 309 XP out of 170 XP to go.

IO3 – Collaborative Training Platform

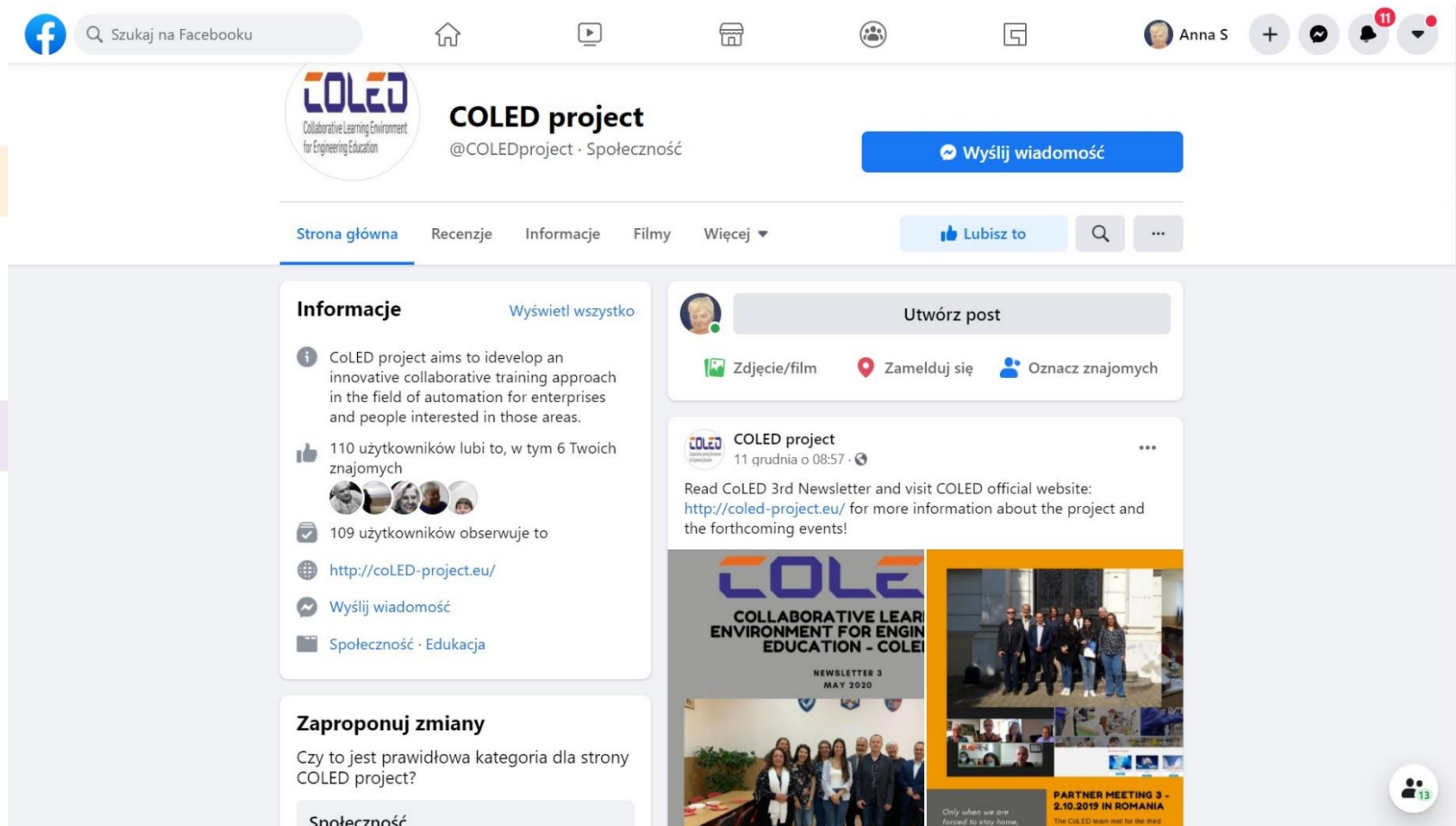


IO3 – Collaborative Training Platform



The screenshot shows a user interface for a CoLED course. On the left is a navigation menu with items like 'Participants', 'Badges', 'Competencies', 'Grades', 'Welcome to Erasmus+ CoLED course', 'Training Materials', 'Quiz', 'What was the most interesting in the course?', 'Certificates', and 'Thank you for exploring Erasmus+ CoLED course'. The main content area is titled 'Assignment' and shows 'Not available'. Below that is a 'Certificates' section with a card for 'CoLED Automation for Manufacturing Training'. A red oval highlights a message box that says 'Thank you for exploring Erasmus+ CoLED course', with links to 'Join CoLED project on Facebook' and 'Welcome to the CoLED project website'. At the bottom, there is a footer with the Erasmus+ logo and text stating the project is co-funded by the Erasmus+ Programme of the European Union.

IO3 – Collaborative Training Platform



The screenshot shows the Facebook profile for the COLED project. The profile name is "COLED project" with the handle "@COLEDproject" and the category "Społeczność". A blue button "Wyślij wiadomość" is visible. The page is divided into sections: "Informacje" (Information), "Zaproponuj zmiany" (Suggest changes), and "Społeczność" (Community). The "Informacje" section includes a description of the project's aim, the number of likes (110) and followers (109), the website URL (<http://coLED-project.eu/>), and a "Wyślij wiadomość" button. The "Zaproponuj zmiany" section asks for a category for the page. The "Społeczność" section shows a post from December 11, 2019, at 08:57, with the text "Read CoLED 3rd Newsletter and visit COLED official website: <http://coled-project.eu/> for more information about the project and the forthcoming events!". The post features a newsletter cover for "COLED COLLABORATIVE LEARNING ENVIRONMENT FOR ENGINEERING EDUCATION - COLED NEWSLETTER 3 MAY 2020" and a photo of a group of people at a "PARTNER MEETING 3 - 2.10.2019 IN ROMANIA".

IO3 – Collaborative Training Platform



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.



COLED RESULTS

-  **CoLED Teaching Methodology**
Developed CoLED teaching methodology providing specific information on actual needs, requirements and preferences of the target groups created with a methodological approach to guide the users how to use CoLED platform and the learning materials including organization of training, group problem solving and definition of case studies.
-  **CoLED Guidelines**
Short summarized description of the portal functionalities and training materials elaborated. The Guidelines will also function as a dissemination/marketing teaser to get the audience interested in the course.
-  **CoLED Collaborative Training Platform**
Innovative ICT platform supporting collaborative learning, group interactions, gamification of learning (achievements), group communication, evaluation of team tasks and projects, group discussions, identification of users activity (logs system), etc.
-  **CoLED Automation for Manufacturing Training**
Practice oriented, transferable and re-designable training and assessment resources for people interested in introducing solutions for automation and robotics.

Thank you Tester Student !

The screenshot displays the COLED user interface for a user named 'Tester Student'. The interface includes a top navigation bar with a close button, a notification bell, and the user's name. A left sidebar contains navigation links: Dashboard, Site home, Calendar, Private files, My courses, CoLED Course, and Online Conference. The main content area is divided into several sections:

- Dashboard:** Features two course cards: 'CoLED Automation for Manufacturing Training' (31% complete) and 'Online Conference for Sustainability' (0% complete).
- Course overview:** A section with a filter dropdown set to 'ALL (EXCEPT HIDDEN)', a 'COURSE NAME' dropdown, and a 'CARD' view selector. It displays the same two course cards as the dashboard, each with a progress bar and completion percentage.
- Private file:** A section indicating 'No files available' and providing a link to 'Manage private files...'
- Online users:** A section showing '1 online user (last 5 minutes)' and a profile for 'Tester Student'.
- Latest badges:** A section displaying two badges: 'Badge 2 Study all Modules' and 'Badge 1 Introduce yourself on forum', both featuring the COLED logo.

Welcome to Online Conference for Sustainability

The background of the central section is a blue-toned image featuring a digital aesthetic. It includes a grid of binary code (0s and 1s) and a network of glowing blue lines connecting various points, resembling a data network or a globe. In the foreground, a hand is holding a smartphone, with the screen displaying a similar digital pattern.

**Online Conference for Sustainability
Erasmus+ CoLED 2019-2020**

**The Conference will start on
28.12.2020, 4 p.m. in Zoom**

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CoLED Project Partnership:



Industrial Research Institute for Automation and Measurements, Poland – coordinator



PRO-MED sp. z o. o., Poland



University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș, Romania



AidLearn, Consultoria em Recursos Humanos Lda., Portugal



European Center for Quality Ltd, Bulgaria