



Co-funded by the
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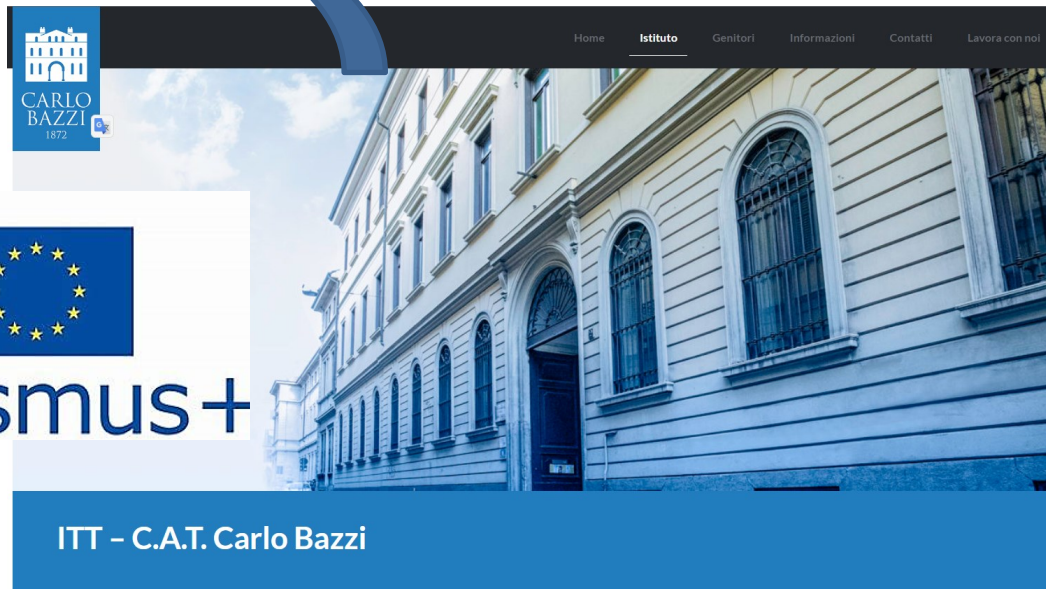


Erasmus+ project KA122-VET ’’Internationalization Students' and Teachers' Task Force’’

Students' mobility – BBZ am Nord – Ostsee – Kanal – AÖR – Europaschule
Teacher : Maurizio Mandaglio 18 – 23 September 2022



Rendsburg, Schleswig-Holstein, Germany



Una sede storica per costruire l'innovazione

L'Istituto occupa il piano terreno e il primo piano di tre dei quattro corpi di fabbrica che circondano il giardino interno dell'edificio, di proprietà del Comune di Milano, situato nel centro cittadino, alangolo fra la via Cappuccio e la via Circo. Con una recente e profonda ristrutturazione delle aule e dell'edificio e l'adozione delle più moderne tecnologie per la didattica, il palazzo d'epoca sede dell' ITT Carlo Bazzi è diventato un innovativo polo culturale dedicato al settore edile.

Gli interventi rivolti all'abbattimento delle barriere architettoniche ed alla sicurezza degli ambienti garantiscono la massima accessibilità allo studio e la più completa tutela degli studenti. La scuola è disponibile ad aprire le proprie porte a chi volesse visitarne gli spazi e conoscere tutte le risorse messe a disposizione del futuro dei nostri giovani iscritti.



Rendsburg 18/23 September 2022

Learning Outcomes



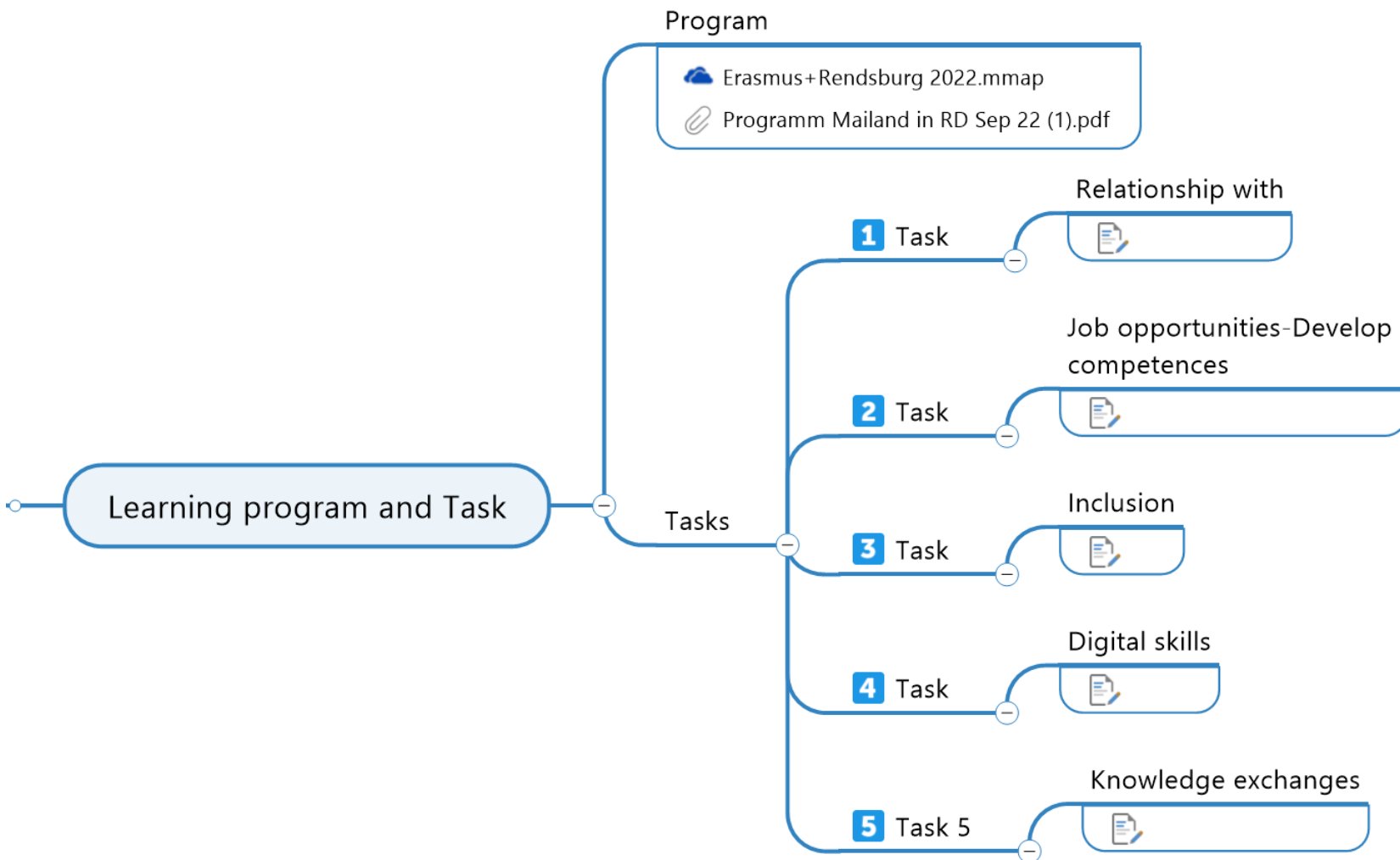
Learning Outcomes

1. Dossier relating to Internationalization
2. Videos of School and its characteristics
3. Video in classroom moments
4. Interview to host students
5. e-book with photo representation about mission
6. Dossier for use of spaces and dissemination



Rendsburg 18/23 September 2022

Learning and Program Task





Rendsburg 18/23 September 2022

Carried out program



Erasmus+ Rendsburg 2022

19/9 Welcome in the BBZ am NOK

1 Welcome at the BBZ am
Nord-Ostsee-Kanal

presentation BBZ am NOK

presentation BBZ am NOK.pdf

presentation German Education, VET
System, BBZ am NOK

presentation German Education, VET System, B...

School presentation

ITI Bazzi Activity

Walking Thru ITI Bazzi

School Presentation to the Host

CP video presentation

Presentation the CP module work

Walk around through the BBZ am NOK

Blue Line in Rendsburg

20/9 Joining classes

Architectural Draftsman

Martha Laessin

ITI Bazzi Activity

Walking Thru ITI Bazzi

School Presentation to the Host

CP video presentation

Presentation the CP module work

Flying Drone in the landscape of Owschlag

21/9 Joining classes

Technical system planner –
specializing in supply and equipment
technologies

Mathias Schröde

Timm Eckmann

ITI Bazzi Activity

Walking Thru ITI Bazzi

School Presentation to the Host

PC video presentation

climbing at the train bridge

22/9 Joining classes

Technical School for Construction with FSB021

Hauke Rohwer

Dirk Carstens

ITI Bazzi Activity

Walking Thru ITI Bazzi

School Presentation to the Host

CP video presentation

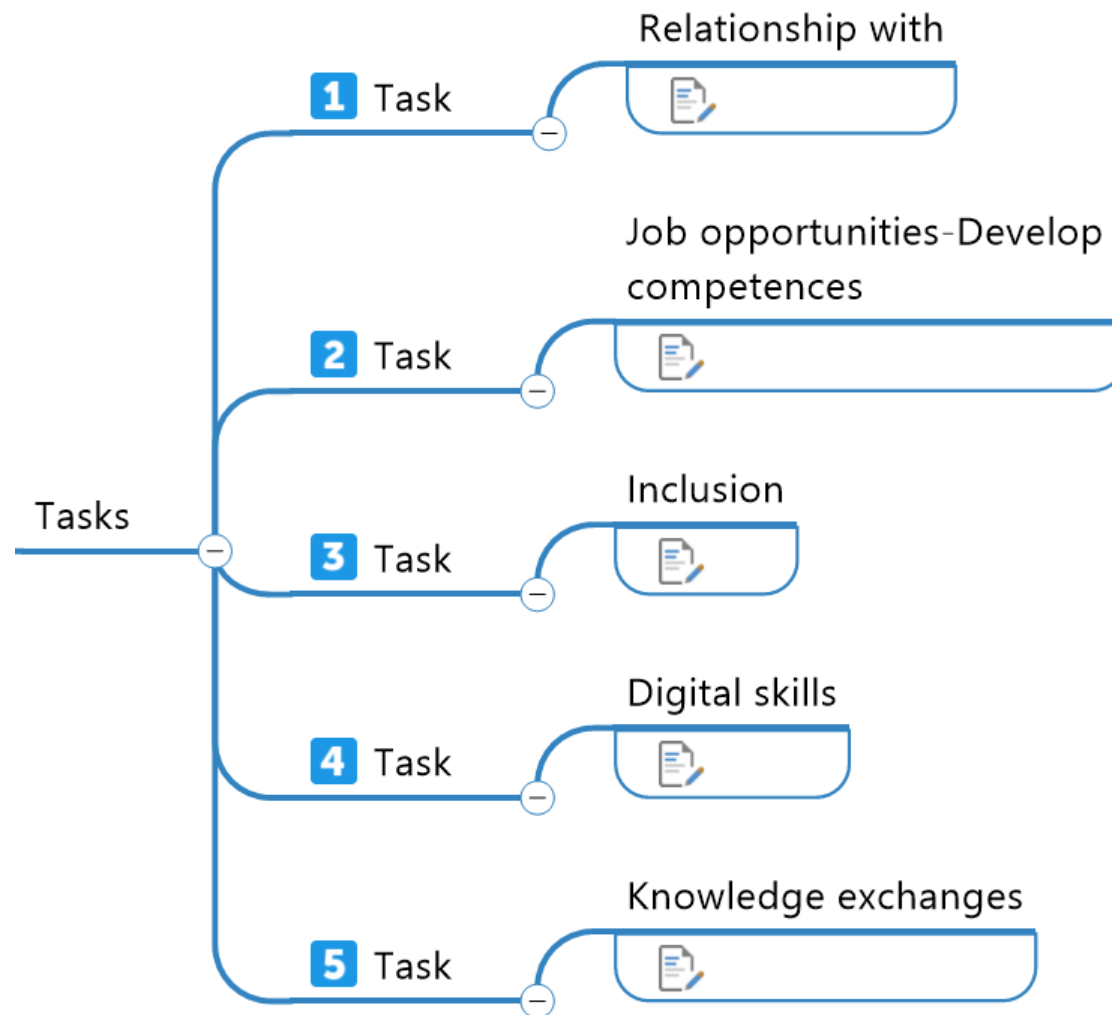
MM Product Presentation

MM Product Presentation.mmap



Rendsburg 18/23 September 2022

Tasks





Task 1

TASK 1



Development of
Internationalization
and creation of an
interactive project:



The teacher will speak
with the German teacher
how to create a new
project and he will share
all the experience in
Erasmus activities, and
he will compare on the
different scholastic
system.

The German's School Educational System

The German Education System and VET-System -Dual VET-

Rendsburg, Schleswig-Holstein, Germany

The 16 federal states



- 12 Mio. students in schools between grade 1 and 13
- 8.6 Mio students in primary and lower secondary education
- 15,2 % (1.3 Mio.) in all day schools
- 7.6 % (900 000) in private schools

- Different school types and systems
- Differences in curriculum
- Comparable degrees
- Comparable educational standards to measure achievement in primary and secondary education

→ problem: 16 different school systems



BBZ am NOK School Presentation



BBZ am NOK School



BBZ am NOK School Presentation: hospitality, meeting room and presentation



BBZ am NOK School Presentation: classroom and laboratories

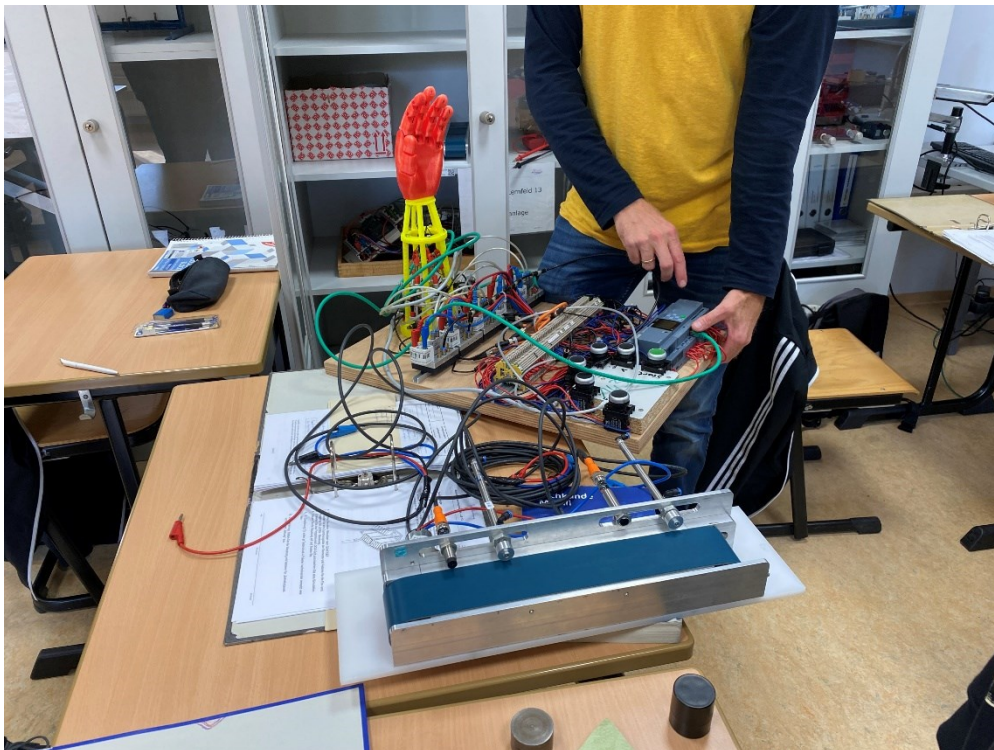


Facility Management laboratory

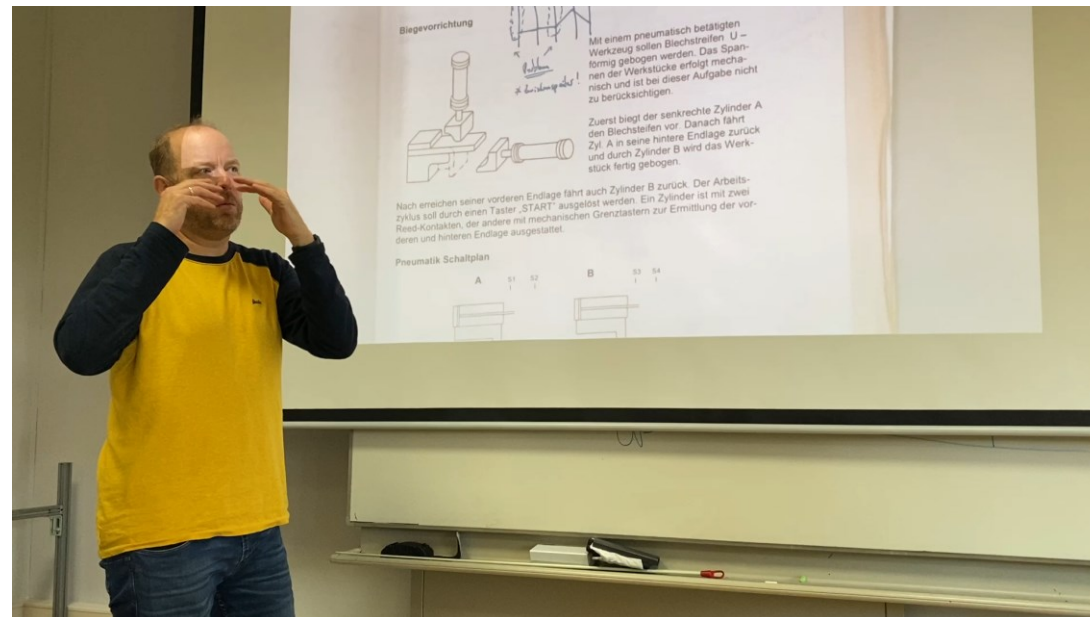


Hobby Room and 3D printing

BBZ am NOK School Presentation: classroom and laboratories



PCL programming laboratory



Short lesson for PCL programming activity

BBZ am NOK School Presentation: classroom and laboratories

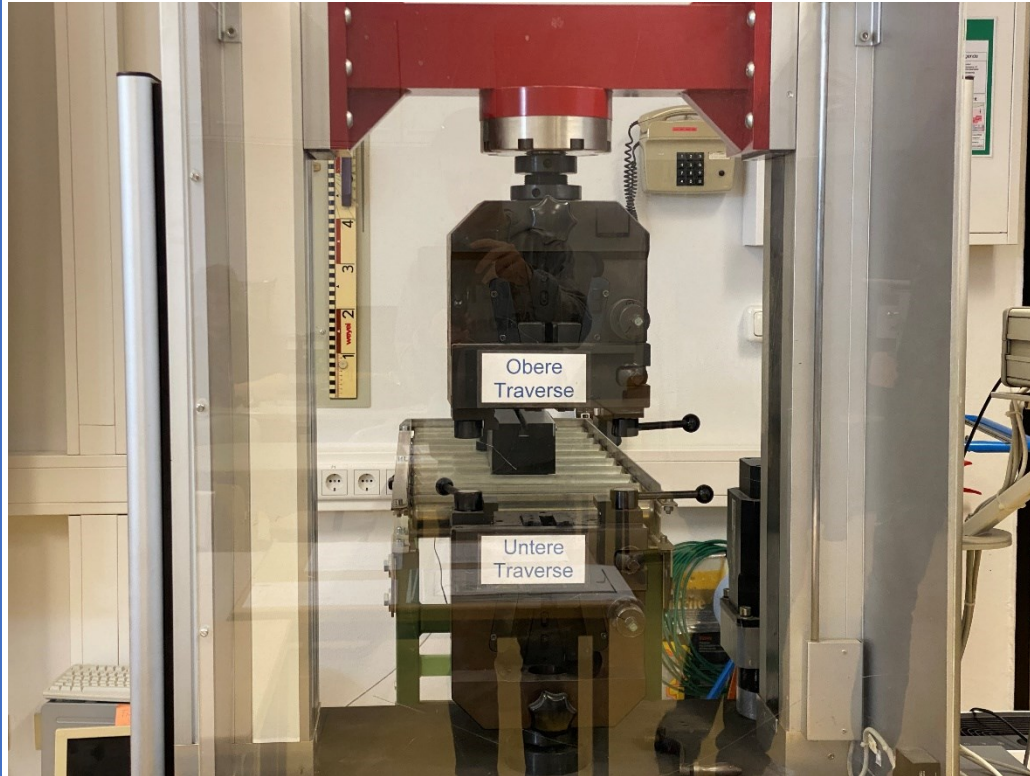


Mechanic laboratory



Mechanic laboratory - Walk through

BBZ am NOK School Presentation: classroom and laboratories



Material testing laboratory: concrete



Material testing laboratory: binder

BBZ am NOK School Presentation: classroom and laboratories



Carpentry's laboratory

BBZ am NOK School Presentation: classroom and laboratories



Building's laboratory



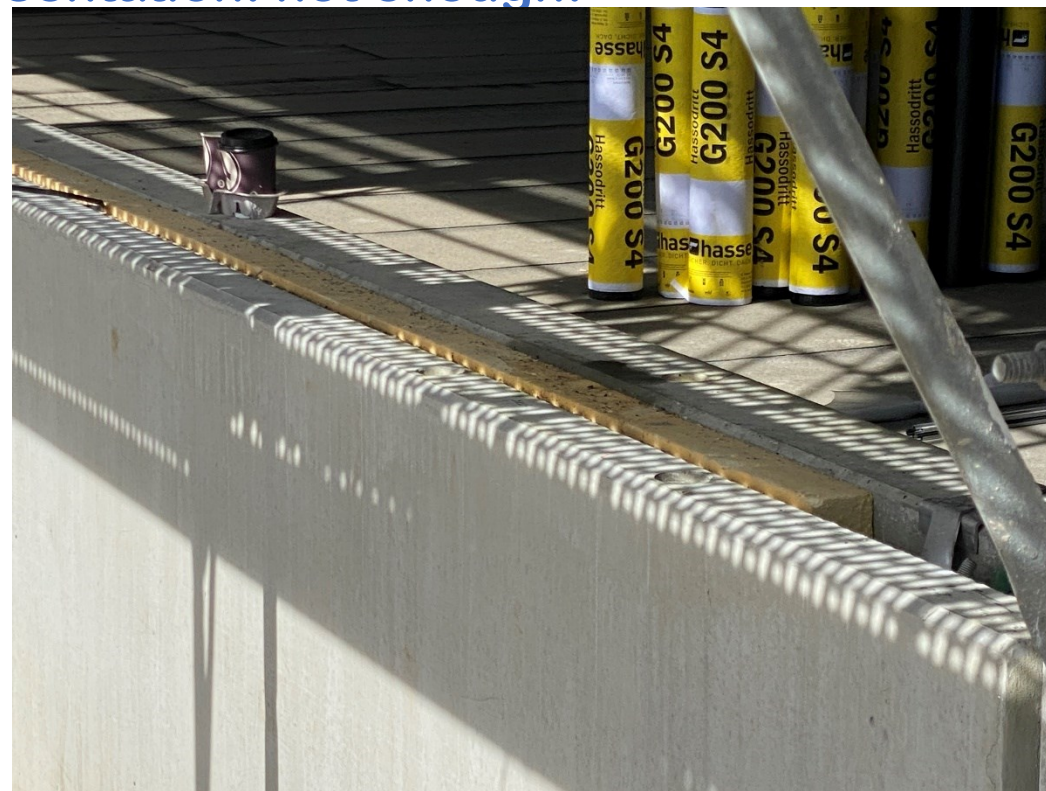
Metal's processing laboratory

BBZ am NOK School Presentation: classroom and laboratories



hydraulic and thermotechnical laboratory

BBZ am NOK School Presentation: not enough!



eight new laboratories under construction



Task 2

TASK 2



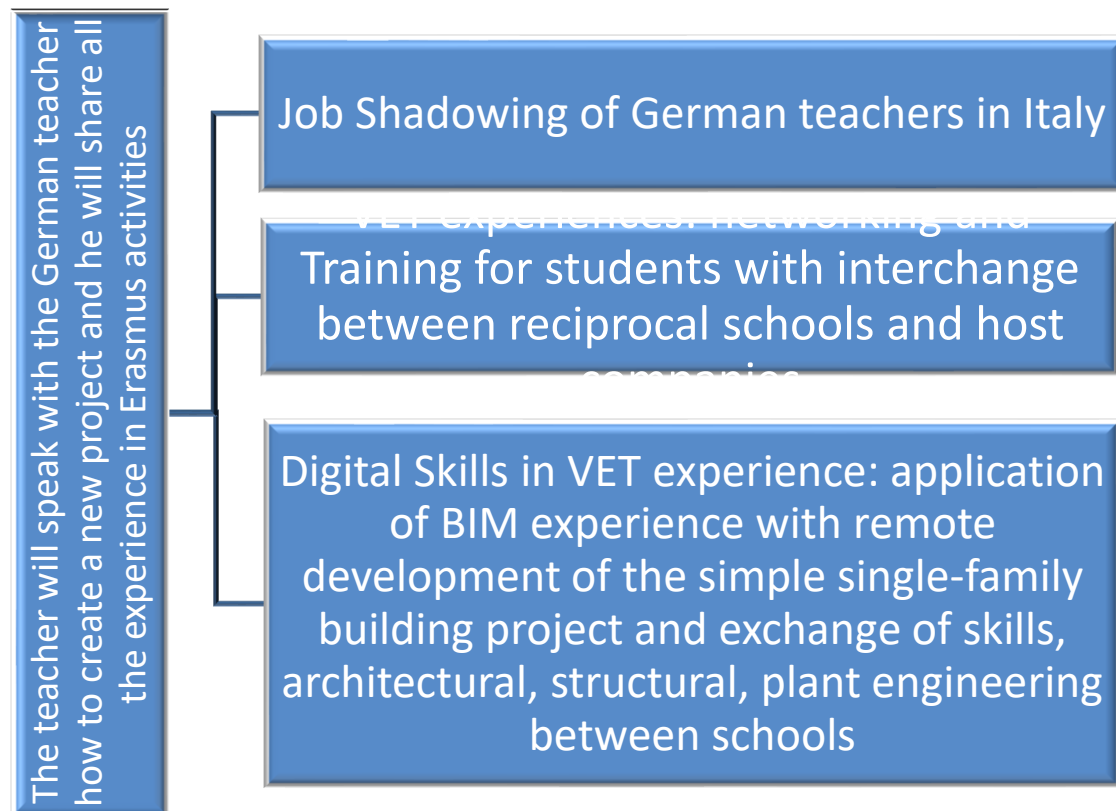
Development of
Internationalization
and creation of an
interactive project:



The teacher will talk
about future work
projects of the students
and possibilities
following and he will talk
about internship
experiences of the
students and of himself
about his Erasmus
activities



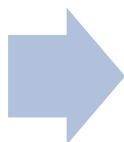
Projects discussed for which there is a general agreement





Task 3

TASK 3



Development of
strategies for the
inclusion of
economically
disadvantaged
students and students
with disabilities:



The teacher will see
how the German
students work and how
the students with
disabilities live in
Germania. He will see
how the students works
and learn in a safety way
in school. He will visit
the city observing all the
architectural barriers to

Urbanistique planning and city design observations



transport and accessibility



Task 4

TASK 4



Implementation of
digital skills for
students fundamental
to address the
challenges of renewal
of the construction
industry



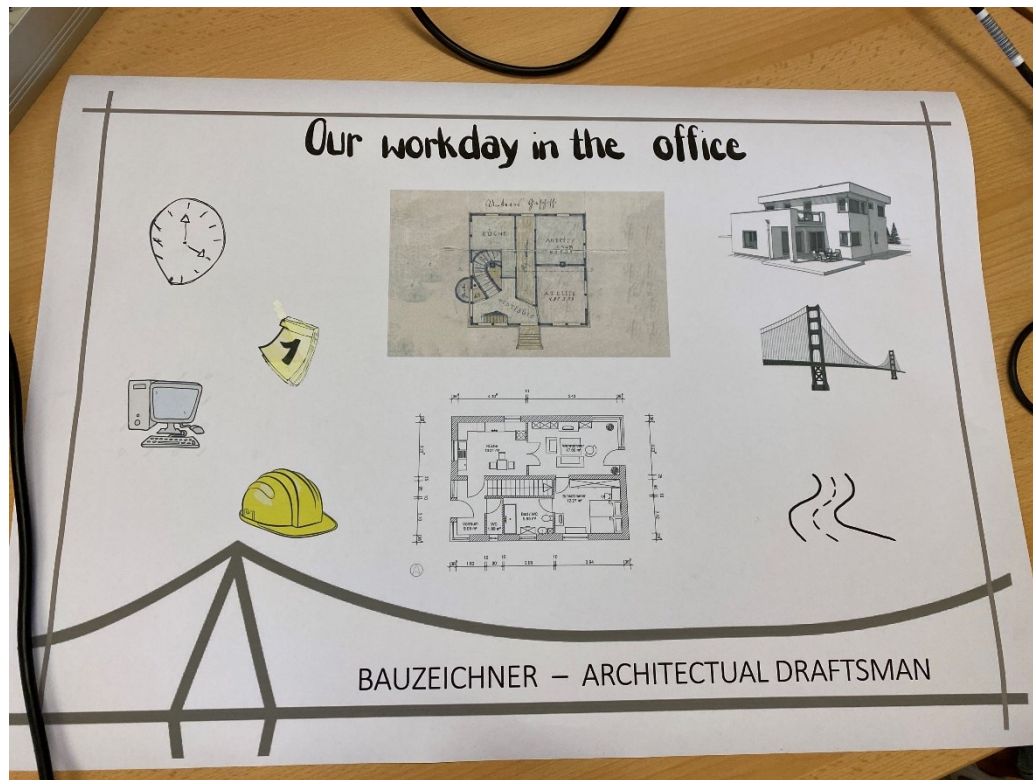
The teacher will
share knowledge
about software
used at school and
in the construction
world

Joining classes: Architectural Draftsman: teacher Martha Laessin



Teamwork classroom design

Joining classes: Architectural Draftsman



Sharing knowledge and classroom activity

Joining classes: Architectural Draftsman



Sharing knowledge and ITI Carlo Bazzi's presentation

Joining classes: Architectural Draftsman



Sharing knowledge - C.P. ITI Carlo Bazzi's presentation

Joining classes-Technical system planner: teachers Mathias Schröde & Timm Eckmann



Classroom equipment

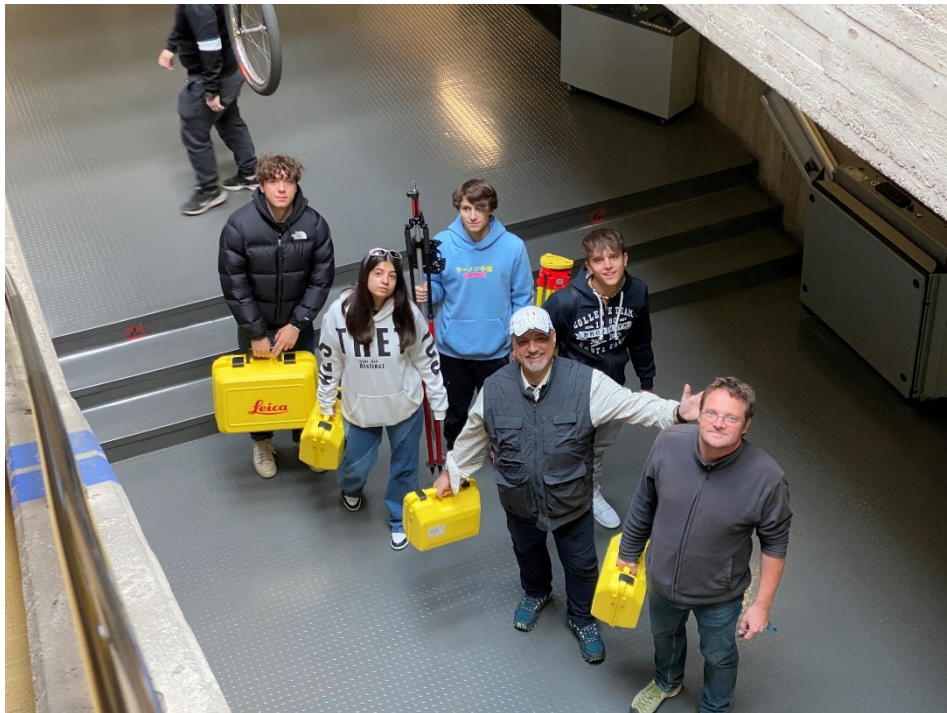
Joining classes-Technical system planner



Working together and Mathias's lesson

Joining classes- Technical School for Construction with FSB021

Teachers: Hauke Rohwer and Dirk Carstens



External Surveying Experience

Joining classes- Technical School for Construction with FSB021



Teacher's Office and Laboratory

Joining classes- Technical School for Construction with FSB021



Instruments

Joining classes- Technical School for Construction with FSB021

Task 4

Task 5



Exchange knowledge – Short videos



Task 5

TASK 5



Exchange of
knowledge and best
practices with other
foreign institutions to
increase sustainability
in the building and
construction
activities:



The teacher will see the
German system planner
about the equipment
technology, he will use
the flying drone in the
landscape, and he will
share their knowledge in
construction with those
of German teachers.

A tall, dark metal observation tower stands prominently in a grassy park. The tower features a complex lattice of steel beams and a prominent spiral staircase that winds up its side. At the top, there is a platform with a glass-enclosed viewing area. In the foreground, a paved path with a metal railing leads towards the base of the tower. The surrounding area is lush with green grass and trees, and the sky is a clear, vibrant blue with a few wispy clouds.



Climbing at the train bridge



Climbing at the train bridge



Flying Drone in the landscape of Owschlag



Flying Drone in the landscape of Owschlag





Task 4

Task 5

Flying Drone in the landscape of Owschlag



Exchange knowledge – Short videos



Rendsburg 19/22 September 2022

Report by Mela



Rendsburg 18 September 2022

Report by mela

 Report generato da MAURIZIO MANDAGLIO II 01/10/2022, 21:24	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrnenstraße 30, 24768 Rendsburg, Germany ERASMUS+ • ERASMUS+:
 Lorenzo Sottili 18/09/2022, 05:19 TASK1-Relationship with	 Via Orio al Serio, 13, 24050 Orio al Serio BG, Italy



Rendsburg 19 September 2022

Report by

 Report generato da MAURIZIO MANDAGLIO il 01/10/2022, 21:32	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrenstraße 30, 24768 Rendsburg, Germany ERASMUS+ • ERASMUS+
 Lorenzo Sottili 19/09/2022, 09:10 TASK1-Relationship with	 Materialhofstraße 5, 24768 Rendsburg, Germany
 MAURIZIO MANDAGLIO 19/09/2022, 12:38 TASK1-Relationship with	 Lunch time Herrenstraße 30, 24768 Rendsburg, Germany
 MAURIZIO MANDAGLIO 19/09/2022, 12:50 Classroom equipment, TASK1-Relationship with, TASK5-Knowledge exchanges	 Laboratori attività Nobiskrüger Allee 30, 24768 Rendsburg, Germany
 MAURIZIO MANDAGLIO 19/09/2022, 14:55 TASK3-Inclusion	 Trasporto pubblico Rendsburg ZOB, 24768 Rendsburg, Germany



Rendsburg 20 September 2022

Report by mela

 Report generato da MAURIZIO MANDAGLIO il 02/10/2022, 10:43	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrenstraße 30, 24768 Rendsburg, Germany ERASMUS+ ERASMUS+
 MAURIZIO MANDAGLIO 20/09/2022, 09:09 TASK1-Relationship with	 Inizio del terzo giorno Berenstraße 21, 24768 Rendsburg, Germany
 Nicole edery 20/09/2022, 09:34 Attrezzature d'aula, TASK1- relationship with	 attrezzature dell'aula indirizzo architettura Herrenstraße 30, 24768 Rendsburg, Germany
 MAURIZIO MANDAGLIO 20/09/2022, 09:40 TASK1-Relationship with, TASK4-Digital skills	 Aula didattica Herrenstraße 30, 24768 Rendsburg, Germany



Rendsburg 21 September 2022

Report by mela

 Report generato da MAURIZIO MANDAGLIO II 02/10/2022, 10:47	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrenstraße 30, 24768 Rendsburg, Germany ERASMUS+ • ERASMUS+
 MAURIZIO MANDAGLIO 21/09/2022, 09:27	 Quarto giorno... Prinzessinstraße 7, 24768 Rendsburg, Germany
 Alessio Scodellaro 21/09/2022, 10:12 TASK1-Relationship with	 Interview Herrenstraße 30, 24768 Rendsburg, Germany
 Alessio Scodellaro 21/09/2022, 10:15 TASK4-Digital skills, TASK5-Knowledge exchanges	 BIM MEP Trimble usato per l'impiantistica su autocad Herrenstraße 30, 24768 Rendsburg, Germany



Rendsburg 22 September 2022

Report by mela

 Report generato da MAURIZIO MANDAGLIO il 02/10/2022, 10:50	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrenstraße 30, 24768 Rendsburg, Germany ERASMUS+ ERASMUS+:
 MAURIZIO MANDAGLIO 22/09/2022, 09:24 TASK3-Inclusion, TASK1-Relationship with	 Quinto giorno Baronstraße 21, 24768 Rendsburg, Germany
 Alessio Scodellaro 22/09/2022, 09:35 TASK1-Relationship with, TASK4-Digital skills, TASK5-Knowledge exchanges	 Drone Lessons Herrenstraße 30, 24768 Rendsburg, Germany
 MAURIZIO MANDAGLIO 22/09/2022, 09:42 TASK5-Knowledge exchanges, TASK3-Relationship with	 GPS Total station Herrenstraße 30, 24768 Rendsburg, Germany



Rendsburg 23 September 2022

Report by mela

 Report generato da MAURIZIO MANDAGLIO il 02/10/2022, 10:52	ERASMUS+Mobilità RENDSBURG Attività missione settembre 2022 Herrenstraße 30, 24768 Rendsburg, Germany ERASMUS+ ▪ ERASMUS+:
 MAURIZIO MANDAGLIO 23/09/2022, 08:53 TASK3-Relationship with	 Rientro a casa... J2H2+HX Hamburg, Germany



Rendsburg 19/22 September 2022
Thanks for your attention
and thanks to

Marko Kramer

Martha Laessin

Mathias Schröde, Timm Eckmann

Hauke Rohwer, Dirk Carstens

And

All students involved to!!!