

Educational Transformation for the 21st Century - EduTrans21



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School:
Energetic Technical College

ERASMUS+ Project
**EduTrans21 (Educational Transformation for the 21st
Century)**



Title of the project:

**„Grassroots to Growth-
Creating Sustainable Communities for a Better
Future”**

Integrated within EduTrans21 project

Perioadă: **Februarie 2023 – Mai 2023**

APPLICATION FORM

Approved,
Director

A. INFORMATION ON THE APPLICANT

Name of the applicant school:	Colegiul Tehnic Energetic Sibiu
Full address	Str. Electricienilor Nr. 1, 550311, Sibiu, Romania
Phone number/fax	Tel: 0040.269.244.351; 0040.731.359.645; Fax: 0040.269.213.901;
Website and e-mail address	sibiuenergetic@yahoo.com ; www.energeticsibiu.ro
Coordinators	Prof. Popa Virginia Prof. Soare Constanța
Number of teachers involved in the project/ total number of teachers in the school	2
Number of students involved in the project	8-20
Other projects/ programmes organized	EduTrans21

B. INFORMATION ON THE PROJECT

B.1. Title of the project:

“Grassroots to Growth- Creating Sustainable Communities for a Better Future”

B.2. Type of main activity within the project: projects with the students

B.3. The field in which the project falls: Trans-disciplinary

B4: Edition no.1

B5: Number of participants to the project: approx. 8-20 students from Energetic Technical College Sibiu

B6: The budget of the project:

Total budget	Own contribution/ other sources
3000 Lei	3000 Lei

B7: The project is with direct/online participation

C. SUMMARY OF THE PROJECT

The project aims to create an appropriate framework for the implementation of awareness activities for actions for sustainable development, which can lead to the fulfilment of the 17 Sustainable Development Goals (SDGs) provided for in the UN 2030 Agenda. The project also aims to develop transdisciplinary educational activities, which include various concrete actions regarding the Sustainable Development Objectives.

a. Number of students and teachers involved: This project involves around 8-20 students and 2 teachers.

b. Direct beneficiaries: the participating students.

Indirect beneficiaries: teachers, other students, local community, partner companies.

Suggested activities, in the order of their occurrence:

Presentation of the Agile and Scrum technique used to carry out the project.

Realization of a KanbanFlow platform to monitor project tasks and optimize work time.

Creating a course on the school's Classroom platform, where students will upload the assignments from the project.

Presentation of the 17 Sustainable Development Goals (SDGs) provided for in the UN 2030 Agenda. (<https://www.euractiv.ro/we-develop/ce-reprezinta-cele-17-obiective-de-dezvoltare-durabila-odd-include-pe-agenda-2030-6402>)

The realization by the students of some activities that include various concrete actions regarding the Sustainable Development Objectives.

Making a good practice guide for reducing consumption, healthy living rules and improving the quality of life in our community.

c. Description of the main activity

The main activity is the realization of projects with the students using the AGILE/SCRUM method. The projects have as their theme the Sustainable Development Goals (SDGs) provided for in the 2030 Agenda of the UN.

d. The estimated educational impact on the target group

The project will prove its usefulness in class, helping to increase students' project development skills. The main benefits for students will be:

- Responsibility and adaptability;
- Critical thinking and systemic thinking;
- Analyzing, accessing, managing, integrating, evaluating, and creating information in various forms and environments;
- Familiarizing students with the UN Agenda 2030 regarding the Sustainable Development Goals
SDG game (bookwidgets.com)
- Improving digital skills;
- Development of communication skills in English.
- Demonstrating teamwork and leadership skills; adapting to various roles and responsibilities; productive collaboration with others; empathic behaviour; respecting other points of view
- Familiarizing the student with KANBAN-type platforms for project management
- Improving students' skills in using computer technologies.

D. PRESENTATION OF THE PROJECT

D.1. Argument, rationale and context

The education system must really prepare the student for adult life, developing the key skills that can ensure his social success. We are mainly referring here to collaboration, teamwork, adaptability, critical thinking.

Taking into account the technology and the use of computer systems in all fields and starting from the fact that our high school has informatics and English as important fields of study through intensive English and intensive computer classes, we consider it necessary to have a project that will value the knowledge obtained during high school.

One of the objectives of the EduTrans21 international project, implemented in our school, is to familiarize teachers and students with the AGILE/SCRUM project management technique.

Also familiarizing students with the Sustainable Development Goals proposed on the UN 2030 agenda is one of the trans-disciplinary themes we propose through this project.

D.2. Aim of project

The purpose of the project is the development of educational activities that include various concrete actions regarding the Sustainable Development Goals.

D.3. The specific objectives of the project

- O1. Implementation of AGILE/SCRUM techniques in the realization of school projects
- O2. Using Kanban online platforms for project management
- O3. Development of linguistic communication skills by carrying out projects in English
- O4. Awareness and information of students regarding the 17 Sustainable Development Goals included in the UN 2030 Agenda.

O5. Making a best practice guide for reducing consumption, healthy living rules and improving the quality of life in our community.

D.4. Description of the target group to which the project is addressed

The project is addressed to students from high school classes at Sibiu Energetic Technical College.

D.5. Direct and indirect beneficiaries

Direct beneficiaries: students

Indirect beneficiaries: students, parents, local community, partner companies.

D.6. Duration of project

Period: February 2023 – May 2023

D.7. Detailed description of the project

ACTIVITY 1

a. Title of activity: Presentation of project. Organizational activities.

b. Date: **3 March 2023**

c. Place: Energetic Technical College Sibiu

d. Participants: Students from Energetic Technical College Sibiu.

e. Brief description of the activity:

The objectives of the *Grassroots to Growth- Creating Sustainable Communities for a Better Future* project are presented to the students involved in the European EduTrans21 project.

Students are also introduced to the AGILE/SCRUM technique used for the realization of projects.

For easier communication within the project, a course will be created on the school's Classroom platform, where students will receive an invitation to register. Another platform used for project management will be KanBanFlow. Each of the students involved will have an account on the platform. Professor Soare Constanța will be the project's Agile manager and responsible for the KanbanFlow platform. Teacher Popa Virginia is responsible for the Classroom platform.

Students will be divided into teams for the following activities

f. the people in charge: Prof. Popa Virginia, Prof. Soare Constanța

g. Beneficiaries: Students from pre-university education, teachers

h. Assessment methods: platforms.

ACTIVITY 2

a. Title of activity: Realization of mini projects on the topic of electricity consumption in a household.

b. Date: **6 March - 17 March 2023**

c. Place: Energetic Technical College Sibiu / online platform

d. Participants: the students involved in the project.

e. Brief description of the activity:

Students will make a list of all the electrical appliances they have at home, stating the average consumption specified by the manufacturer for each appliance. For 1 week they will monitor the electricity consumption of all the appliances they use. The list will be posted on Classroom.

The students will make a presentation in which the obtained data are presented as well as some examples of good practices for reducing consumption. On March 17, the students will present the information obtained to their colleagues and upload their presentations to the Classroom platform.

Professor Soare Constanța will monitor the implementation of activities on the KanbanFlow platform

f. the people in charge: Prof. Popa Virginia, Prof. Soare Constanța

g. Beneficiaries: the students from the project

h. Assessment methods: the students' lists and presentations uploaded on Classroom

ACTIVITY 3

a. Title of activity: Presentation of the Objectives of sustainable development and discovery activities

b. Date: **24 March 2023**

c. Place: Energetic Technical College Sibiu / online platform

- d. Participants: the students involved in the project.
- e. Brief description of the activity: After watching some videos presenting the 17 Sustainable Development Goals, there will be some activities to deepen and raise awareness of these goals, so that the participating students understand the need to achieve these goals, to familiarize themselves with them, so that they can work with these goals in activities subsequent.
- f. the people in charge: Prof. Popa Virginia, Prof. Soare Constanța
- g. Beneficiaries: the students from the project
- h. Assessment methods: online applications

ACTIVITY 4

- a. Title of activity: Creation of SDG representative posters
- b. Date: **24 March – 21 April 2023**
- c. Place: Energetic Technical College Sibiu / online platform
- d. Participants: the students involved in the project.
- e. Brief description of the activity:
The students will make representative posters in groups with SDG promotion messages that they will post on the Classroom platform.
Professor Soare Constanța will monitor the implementation of activities on the KanbanFlow platform.
- f. the people in charge: Prof. Popa Virginia, Prof. Soare Constanța
- g. Beneficiaries: students, teachers, parents.
- h. Assessment methods: Posters to be printed and displayed around the school.

ACTIVITY 5

- a. Title of activity: Creation of best practice guidelines for reducing consumption, healthy living rules and improving the quality of life in our community.
- b. Date: **18 April – 5 May 2023**
- c. Place: Energetic Technical College Sibiu / online platform
- d. Participants: the students involved in the project.
- e. Brief description of the activity:
Using Word and Publisher applications, students will create a Best Practices Guide for reducing consumption, healthy living rules and improving the quality of life in the community. This will later be printed and is a product of the project. It will be able to be used in conducting classes.
Professor Soare Constanța will monitor the implementation of activities on the KanbanFlow platform.
- f. the people in charge: Prof. Popa Virginia, Prof. Soare Constanța
Beneficiaries: Students from pre-university education, teaching staff, parents, representatives of the local community, cultural figures of reference in the field, representatives of partner companies.
- h. Evaluation methods: Best practice guide

D.8. Diagrama Gantt a activităților

Nr. crt.	Specific objectives	Activity	March	April	May	Responsible
1.	Implementation of AGILE/SCRUM techniques in the realization of school projects Using Kanban online platforms for project management.	Launching of the project	X			Project coordinators
2.	Awareness and information of students regarding the 17 Sustainable Development Goals included in the UN 2030 Agenda	Realization of mini projects on the topic of electricity consumption in a household.	X			Project team
		Presentation of the Objectives of sustainable development and discovery activities.	X			Project team
		Realizare afise reprezentative cu SDG	X			Project team
		Creation of best practice guidelines for reducing consumption, healthy living rules and improving the quality of life in our community		X	X	
3.	Dissemination of results	Distribution of the completed guide to colleagues in the school Publication of project results on a website. Presentation of project results during the meeting with the EduTrans21 project team			X	Project team
4.	Developing students' interest in the Sustainable Development Goals	Popularization of the project/examples of good practices			X	Project team

D.9. Qualitative and quantitative results expected as a result of project implementation

- Posters
- Good practice guide for reducing consumption, healthy living rules and improving the quality of life in our community.

D.10. Ways of monitoring and evaluating the project

The monitoring is carried out by the competition organizing committee, the director of the institution.

- Weekly meetings with the project team;
- Analysis and establishment of the steps to follow in the development of activities;

D.11. Ways to ensure the continuity/sustainability of the project

In order to ensure sustainability, we proposed the following: promoting the project and attracting other young people to the project's activities; maintaining partnerships and attracting new partners; At the same time, the project comes with the proposal to carry out some activities in the 2023-2024 school year.

D.12. Promotion/media and dissemination activities that you intend to carry out during the implementation of the project

- Presentation of the project results at the International Conference of Scientific Communications organized on May 24 by the Sibiu Energy Technical College.
- Posting an activity sheet on the Edutrans21 international project website.
- Dissemination of the project in the project meetings with the partners of the Edutrans21 project
- Evaluation and dissemination through the publication of a brochure/guide of good practices: May 2023

D.13. Partners involved in the project, description of the partnership

Principle

Prof. Ph. Volosciuc Sorin Dan

Coordinators:

Prof. Popa Virginia

Prof. Soare Constanța