**Student Scientific Communications Session - May 2021 edition**

Organizator: Politehnica University of Bucharest UNESCO Chair Department

# Purpose

The Student Scientific Communications session aims to encourage students (bachelor's and master's) to carry out scientific research activities, especially interdisciplinary, to acquire the rigor and principles of the research (up-to-date documentation, citation, measurement, simulation, written exposure and ) and to improve their communication and dialogue skills.

The organizers aim to motivate students to investigate engineering issues in the context of sustainable development. Through their participation, students have the opportunity to present their own scientific ideas and to understand the importance of proper communication of scientific information. The organizers will support and encourage students with outstanding results to write scientific articles that can be published in specialized journals..

# Theme

One of the main objectives of the UNESCO Chair is to contribute through research programs to green energy, smart transport and the low impact of air transport on the environment in order to address the challenges of climate change.

Works that address topics from any field of engineering and applications in the context of sustainable development can be entered in the contest.

The works can be theoretical or applied, presenting results of an original own research, or results of complex bibliographic studies based on an extended bibliography. Complex bibliographic studies can be comparative studies between various well-known theories, synthesis of research results on a given topic or comparative analyzes of data from the literature.

### The papers will be written and presented in English.

1. Contest

The Student Scientific Communications session is organized by the UNESCO Chair Department of the "POLITEHNICA" University of Bucharest.

* 1. 3.1 Conditions for participation

The scientific communications session is addressed to the students / masters of the POLITEHNICA University in Bucharest and also to the students from other university centers.

Participation is individual or in a team of maximum 2 members.

For registration, the registration form (Annex 1) will be completed and will be sent to the email address: **unesco.office.upb@gmail.com** by **23 April 2021** at the latest.

The application form will be accompanied by a summary of the paper (Abstract) as a pdf file. It must include:

1. the objective of the work;
2. argumentation of the theme;
3. main conclusions.

The summary of the paper will be written in English and will have a maximum of 1 page in Microsoft Word format with Arial 12 font.

### The complete work will be sent to the email address unesco.office.upb@gmail.com until May 10, 2021 at 11:59 p.m.

For other information regarding the conditions of participation or conducting the contest, contact the Organizing Committee (at unesco.office.upb@gmail.com).

The coordinating teachers will guide the students to original creations, not allowing the works presented in the session to reproduce parts or chapters from textbooks or other previous works. Failure to comply with the previously formulated requirements and the deadline set by the organizers results in the failure to accept the paper at the Communications Session.

## Conducting the competition

### The Communications session takes place on 14th of May 2021, ONLINE, on Teams, at 10:00 am

Depending on the number of papers submitted, the organizing committee decides the opportunity of organizing parallel sections. A section has a maximum of 24 works. For the parallel sections organized on the same subject, the jury will be conducted by an enlarged commission, formed by the meeting of the jury commissions from each section separately. If the parallel sections are organized on different topics, the organizing committee may decide to award prizes and diplomas for each section separately.

The distribution of the works by sections will be made known to the participants through the Program of Communication Session. The program together with the summaries of the works selected for presentation will be displayed on the manifestation website.

## Presentation of the paperwork

The organizing committee will establish the schedule of presentations and will send it to the participants in a timely manner.

The papers will be presented orally in English in front of the jury only by the students who have authored them and will be accompanied by a presentation made in Power Point. The participants will give the jury a copy of the paper work. The time allocated to each presentation is of maximum 10 minutes.

## Evaluation of paperworks

The evaluation will be done by a Jury Commission on each section made up of teachers and students, so:

* a president - teacher;
* two members - teachers;
* a secretary.

In the evaluation process, the intervention of the coordinating teachers of the paperworks in the competition is not allowed.

From the jury commission may be invited people from research and / or production institutions, they can award prizes (on behalf of the institution they represent) to students who carry out works of interest for their field of activity.

The participants must demonstrate through the presented paperworks:

* that they have the ability to formulate clearly the objectives and methods used to achieve the study objectives;
* that they have acquired the rigor and principles of the research: documentation, hypothesis formulation, measurement, simulation, interpretation of results, quotation, written and spoken presentation;
* that they have adequate communication skills of scientific information and dialogue.

The evaluation of the works will be done according to the criteria in the following grid:

|  |  |
| --- | --- |
| No of the paperwork registered in the competition |  |
|  | *GRADE* |
| A. The quality of the written paperwork |  |
| Motivation and objectives of the paperwork |  |
| Originality and importance of the subject |  |
| Presentation and interpretation of results |  |
| The structure and form of the paperwork |  |
| Use of appropriate vocabulary |  |
| Bibliography (list of references) and still reference |  |
| B. Oral presentation of the paperwork |  |
| Motivation and objectives of the paperwork, description of the study methods, of the analyzed phenomenon |  |
| Scientific language used, understanding of the subject |  |
| Personal approach (critical thinking, analysis, synthesis) |  |
| Presentation mode (free speech, organization of oral presentations, time frame) |  |
| The quality of the answers to the questions received |  |

For each criterion, grades from 1 to 10 will be awarded, these having equal weight in the final grade. In the punctuation of the works, the originality, functionality, design, innovations brought into the field and the practical applicability of the project idea will be taken into account.

The judging commission will be established by the Organizing Committee in consultation with the UNESCO Department Office. Each member of the Commission undertakes to comply with the provisions of the Regulation. After approval, the composition of the jury commissions by sections, is announced through the Session Schedule.

The attributions of the jury commission, established by this regulation, are as follows:

1. evaluates the content of the paperworks;
2. participates in supporting the paperworks and performs the evaluation of the support in the plenary section;
3. deliberates on the classification of the students according to the obtained results. The final score, in order to rank the works, will be established as a simple arithmetic mean of the score awarded by each evaluator. The extreme values from the evaluation of the members of the commission will be eliminated from the calculation of the average, if the difference is greater than 6 points;
4. draws up the minutes with the decision to prioritize the works and award them;
5. makes recommendations for publishing works considered to be of a high scientific level.
6. the commission assumes the professional and moral responsibility for the correct, impartial evaluation of the presented paperworks, ensuring the transparency of the entire competition process.

## Awarding of prizes

The paperworks with the highest note in each section are awarded. They are only granted if the respective works have met the requirements of qualitative exigency expressed at the highest level of all the criteria imposed, thus:

**1st Prize:** is awarded to the work that has obtained the highest mark, provided that it is greater than 9.50;

value: 400 lei

**2nd Prize:** it is granted provided that at least 9.00 marks are obtained; value: 300 lei

**3rd Prize:** is granted provided that at least 8.50 marks are obtained;

value: 200 lei

**Mention Prize:** shall be granted, in descending order, to works that have obtained at least note 7.5.

value: 100 lei

The prizes will be presented in a festive setting, at a later date. With their agreement, the photos of the winners together with a brief presentation of them will be presented on the specially created website on the UNESCO Chair's website.

### REGISTRATION FORM

Student Scientific Communication Session - May 2021 edition

|  |  |  |
| --- | --- | --- |
| Authors | | |
| Student 1 | Name and surname  Faculty / Year of study  No student ID  Phone  E-mail |  |
| Student 2 | Name and surname  Faculty / Year of study  No student ID  Phone  E-mail |  |
| Paperwork | | |
| Title |  | |
| Coordinating teacher | Name and surname  Faculty  E-mail |  |