TSI TRANSPORT AND TELECOMMUNICATION INSTITUTE

THE REGULATIONS OF THE
TSI Olympiad 2023

JSC "Transport and Telecommunication Institute" (hereinafter - TSI) organizes TSI Olympiad 2023 online (hereinafter - Olympiad) in three directions:

a. **Engineering Sciences**
   - Mathematics
   - Programming
b. **Social Sciences**
   - Mathematics & Economics
   - English
c. **Robotics** - Competition

The Olympiad rules (hereinafter Rules) are described in the Olympiad procedure.

1.   The Aims and Tasks of the Olympiad

1.1. Promote mathematics, information technology, programming, robotics, physics, economics and management science;
1.2. Provide pupils with the opportunity to prove your knowledge in these fields, to promote their acquisition in lessons and extracurricular activities, as well as to deepen their interest;
1.3. To activate pupils creative activity in the field of information technology and robotics;
1.4. Promote pupils self-initiative in career choice, self-expression and self-esteem;
1.5. Emphasize the importance of practical activity in the process of personality development.

2.   General Information

2.1. The organizer of the Olympiad is JSC "Transport and Telecommunication Institute", registration No. 40003458903, official address: 1 Lomonosova Street, Riga, LV-1019;
2.2. The addressees and target audience of the Olympiad are **pupils of the 10th, 11th and 12th grades of secondary schools, as well as the graduate students of colleges** who will obtain a Certificate of General Secondary Education in year 2023 (hereinafter - the Participant);
2.3. The Olympiad will take place **online on April 15, 2023 from 10:00 to 15:00 EET** (Riga time);
2.4. The Olympiad will be held in Latvian and English;
2.5. The winners of the Olympiad will be 3 participants who will show the best results in their represented direction;
2.6. Olympiad is supported by: ABB, AST, Clarity, Epam, Magebit, MSC, Scandiweb, StartIT, ZZ Dats

3.   Login and Registration

3.1. The submission and registration of the application form of the Olympiad will processed electronically from **February 1, 2023 to April 12, 2023 at 21:00 EET** (Riga Time) by filling in the Participant registration form on the TSI website, in the section TSI Events;
3.2. A participant can choose and apply for one of the offered blocks - Engineering or Social Sciences, as well as additionally participate in the Robotics Competition;

3.3. In the registration form, the Participant shall indicate his/her name, surname, selected direction/s, educational institution, grade, e-mail address, telephone number and country of residence;

3.4. By registering, the Participant agrees to the processing of his/her personal data and the terms and conditions of the Olympiad;

3.5. Upon the successful registration, the Participant receives confirmation of participation in the Olympiad.

4. Procedure of the Olympiad

4.1. **Direction Engineering Sciences**
Mathematics Block from 10:00 to 12:00 (EET)

4.1.1. The estimated completion time of the Olympiad tasks are 2 hours (max 120 minutes), depending on the Participant's individual abilities;

4.1.2. The tasks will be available in PDF format, on the website www.e.tsi.lv, in the section TSI Olimpiāde 2023. The specific link will be open one day before the start of the Olympiad (from April 14, 2023 at 10:00 EET) and Olympiad's tasks will be available on April 15, 2023, from 10:00 (EET);

4.1.3. The tasks' answers must be written on an A4 sheet of paper with a blue pen, clearly indicating the name, surname, country of residence, school and task number;

4.1.4. On April 15, 2023, from 12:00 to 12:30 (EET), it will be possible to upload the filled answer's sheet in the form of scan (preferably in PDF format, as a single file) or as a photo(s) (jpg; png format).

4.2. **Direction Engineering Sciences**
Programming Block from 13:00 to 15:00 (EET)

4.2.1. The estimated completion time of the Olympiad tasks are 2 hours (max 120 minutes), depending on the Participant's individual abilities;

4.2.2. Tasks will be completed electronically using the DomJudge system, which also ensures the results of the task;

4.2.3. Programming languages that are allowed to use are: C#, C/C++, Python, Java, Pascal;

4.2.4. The results are computing automatically and all participants in this chosen block see the results of each participant;

4.2.5. The results of the Olympiad are "frozen" 20 minutes before the end of the task, which means that information about the results won't be longer updated.

4.3. **Direction Social Sciences**
Mathematics and Economics Block from 10:00 to 12:00 (EET)

4.3.1. The estimated completion time of the Olympiad tasks are 2 hours (max 120 minutes), depending on the Participant's individual abilities;

4.3.2. The tasks and topic of the essay will be available in PDF format, on the website www.e.tsi.lv, in the section TSI Olimpiāde 2023. The specific link will be open one day before the start of the Olympiad (from April 14, 2023 at 10:00 EET) and Olympiad's tasks will be available on April 15, 2023, from 10:00 (EET);

4.3.3. The essay must be written in Microsoft Word - word processing software, or on an A4 sheet of paper with a blue pen, clearly indicating the name, surname, country of residence, school and task number;

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4.3.4. On April 15, 2023, from 12:00 to 12:30 (EET), it will be possible to upload the filled answer's sheet in the form of:
- Microsoft Word word processing software, converting it to PDF format;
- or in the form of scan (preferably in PDF format, as a single file) or as a photo(s) (jpg; png format).

4.4. **Direction Social Sciences**
English Block from 13:00 to 15:00 (EET)

4.4.1. The estimated completion time of the Olympiad tasks are 2 hours (max 120 minutes), depending on the Participant's individual abilities;

4.4.2. The tasks will be available in PDF format, on the website www.e.tsi.lv, in the section TSI Olimpiāde 2023. The specific link will be open one day before the start of the Olympiad (from April 14, 2023 at 10:00 EET) and Olympiad's tasks will be available on April 15, 2023, from 10:00 (EET);

4.4.3. The tasks' answers must be written on an A4 sheet of paper with a blue pen, clearly indicating the name, surname, country of residence, school and task number;

4.4.4. On April 15, 2023, from 15:00 to 15:30 (EET), it will be possible to upload the filled answer's sheet in the form of scan (preferably in PDF format, as a single file) or as a photo(s) (jpg; png format).

4.5. **Direction Robotics – Competition:**
from April 1, 2023 at 10:00 (EET) to April 15, 2023 at 21:00 (EET):

4.5.1. The estimated completion for the implementation of the Olympiad task - project is 14 days;

4.5.2. The project must be developed individually;

4.5.3. The task will be available in PDF format, on the website www.e.tsi.lv, in the section TSI Olimpiāde 2023. The specific link will be open from April 1, 2023 at 10:00 EET) and task of the Olympiad will be available until April 15, 2023 at 21:00 (EET);

4.5.4. The task must be completed online and the project result must be uploaded in a video format on the website www.e.tsi.lv by April 15, 2023 at 21:00 (EET), clearly indicating the name, surname, country of residence, school and task number;

4.5.5. In the competition are acceptable only those projects who were developed this year.

5. **The Olympiad Organizing Committee and Olympiad Tasks' Evaluation**

5.1. **Evaluation of the Olympiad tasks in Mathematics, Programming, Economics and English language blocks:**

5.1.1. Answer's sheets submitted by the Participant will be evaluated according to certain criteria by the Olympiad organizers and TSI faculty representatives;

5.1.2. Each task will be verified and evaluated with a certain score, depending on the complexity of the task, ranging from 0, when the task was not started, to the maximum score for the task;

5.1.3. The Participant submits the answers electronically by uploading the file(s) to the indicated website e.tsi.lv or in the Programming block in the DomJudge system;

5.1.4. The Participant is responsible for the quality of the submitted responses, in case if the quality of the uploaded file(s) will be low, the work will not be evaluated;

5.1.5. The answers will be verified and evaluated separately by blocks;

5.1.6. The final result is the sum of all points obtained in the tasks of both blocks in the chosen direction;

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5.1.7. Submission of tasks answers before the deadline does not confer any advantage, except for the Programming block, where the time taken to solve the task is taken into account in the overall evaluation.

5.2. **Evaluation of the Olympiad task in Robotics block:**

5.2.1. Your project will be evaluated by a board of experts, who represents the academia and industry domain;

5.2.2. Each task will be verified and evaluated according to a certain criteria, where the total amount creates obtained percents in the tasks;

5.2.3. The result of the project in video format must be submitted electronically by uploading the file on the website www.e.tsi.lv;

5.2.4. The Participant is responsible for the quality of the submitted responses, in case if the quality of the uploaded file will be low, the work will not be evaluated;

5.2.5. Submission of tasks answers before the deadline does not confer any advantage.

6. **Olympiad Finalists and Awards**

6.1. All Participants will receive e-certificates of participation in the Olympiad;

6.2. **Awards in the direction of "Engineering Sciences":**

6.2.1. The grand prize for the 1st place is a 100% discount voucher, which covers full tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 22 400, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 8;

6.2.2. The prize for the 2nd place is a 75% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 16 800, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 7;

6.2.3. The prize for the 3rd place is a 50% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 11 200, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8 and the grades are not lower than 7;

6.3. **Awards in the direction of "Social Sciences":**

6.3.1. The grand prize for the 1st place is a 100% discount voucher, which covers full tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 22 400, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 8;

6.3.2. The prize for the 2nd place is a 75% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 16 800, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 7;

6.3.3. The prize for the 3rd place is a 50% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 11 200, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8 and the grades are not lower than 7;

6.4. **Awards in the Robotics competition:**

6.4.1. The grand prize for the 1st place is a 100% discount voucher, which covers full tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 22 400, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 8;

6.4.2. The prize for the 2nd place is a 75% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 16 800, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8.5 and the grades are not lower than 7;

6.4.3. The prize for the 3rd place is a 50% discount voucher, which covers tuition fee in the bachelor study program of your choice for the entire study period, worth up to EUR 11 200, depending on the tuition fee according to residence country, and if the weighted average grade in the previous study year is not lower than 8 and the grades are not lower than 7;

6.5. Additional prizes from the TSI and supporters of the Olympiad awaits the winners of the 1st, 2nd and the 3rd places, as well as the participants who will show the best results in each direction;

6.6. The announcement of the winners and the award ceremony will take place on April 25, 2023 in Riga, Lomonosova Street 1, at the premises of the TSI, by informing each participant personally;

6.7. After the award ceremony of the Olympiad, the organizer of the Olympiad will contact the winners individually and, if case if the Participants cannot personally attend the award ceremony, will invite them to receive the prize within 3 working days - until April 28, 2023 at the premises of the TSI;

6.8. We do not provide the delivery of the prizes via post mail for participants from abroad;

6.9. In case the organizer of the Olympiad can not contact the winner of the Olympiad within 3 working days or agree on the time of the award of the prize, or if the winner refuses to receive the prize, the organizer of the Olympiad is entitled to leave the prize in his possession.

7. Privacy and Security Policy for the Processing of Personal Data

7.1. The organizer of the Olympiad will process the personal data (name, surname, telephone number, e-mail address) provided by the participants of the Olympiad. By indicating his or her personal data, the person consents to the processing of personal data for the purpose and storage specified in these Regulations for the specified period of time;

7.2. Personal data will be processed for the purpose of providing information on the TSI Olympiad, news, as well as for direct marketing activities. The purpose of processing the obtained personal data is to provide organizational issues related to the Olympiad and information on the provision of the Olympiad to the society. The provided personal data of the Olympiad winners will be processed for the identification of the Olympiad winners and the issuance of prizes;

7.3. Collected personal data within the Olympiad will be saved for 365 days from the day of the start of Olympiad;

7.4. If a person does not agree to provide the personal data required for the Olympiad, he/she cannot participate in the Olympiad;

7.5. In any questions related to the conduct of the Olympiad and which are not determined by these regulations, the organizer of the Olympiad may take a unilateral decision and act in accordance with the applicable regulatory framework;

7.6. In case of complaints and questions, the Olympiad participant is entitled to contact the Olympiad organizer in the form of a letter, fully setting out the objections and justification, and sending information to the email: events@tsi.lv within 30 days from the start date of the Olympiad. The claim or issue will be considered within 15 (fifteen) working days from its receipt. The answer to the claim or question will be provided in the form of a letter by sending it to the address indicated in the application of the Olympiad participant. Claims submitted after 30 days from the date of the start of the Olympiad will not be considered and are considered to be overdue;

7.7. By fulfilling the conditions of the Olympiad, the participant of the Olympiad confirms that he/she has read these regulations and rules of the Olympiad, they are understandable and there are no objections to participation in the Olympiad.

8. General Provisions

8.1. During this Olympiad, the Participants are not allowed to engage in the following activities:

8.1.1. Use any aids (including printed or written materials, except issued by the Olympiad organizers, any electronic devices, except computers for work, data carriers);

8.1.2. Communicate (directly or by using smart devices) with third parties;

8.1.3. Try to disrupt the Olympiad server;

8.1.4. Attempt to access task solutions of other Participants;

8.1.5. Allow other Participants to access their task solutions;

8.1.6. Take any action that does not comply with the principles of fair competition;

8.2. A Participant who intentionally violates the rules will be disqualified by the Organizers' decision;

8.3. Participants will be held liable (civil and criminal case) for any transfer of their answers to other persons;

8.4. The results of the Olympiad will be published on the website www.tsi.lv and any social networks, where the following information might be indicated: the score of each student, name, surname, grade, educational institution of the Participant;

8.5. The Participant does not have the right to appeal the results of the Olympiad;

8.6. The official website of the Olympiad is the following: www.tsi.lv.