ERASMUS+ KA1 · COURSES FOR SCHOOL EDUCATION STAFF

Erasmus+ courses at RoboTech STEM Center, Ptuj

4 courses in order of start date. Click a title to jump to its brochure, or use the application link to apply online.

1. 26–30 April 2027

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia

5 DAYS · 28 H

VEX IQ Robotics for Teachers: Hands-on STEM Course in Ptuj

A five-day, hands-on course for primary and lower-secondary teachers: build and program VEX IQ robots, explore AI vision, and bring challenge-based STEM learning back to your school.

Fee: 400 € per participant (VAT: reverse charge for EU organisations with a valid VAT ID, otherwise 22% Slovenian VAT included) · **Apply by:** 25 February 2027 · Apply online →

2. 12–16 July 2027

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia

5 DAYS · 30 H

Hands-on STEAM in the Classroom: low-cost experiments, robotics and outdoor science

A five-day Erasmus+ course for primary and lower-secondary teachers: run hands-on STEAM lessons with low-cost experiments, virtual robotics and outdoor science, and take ready-to-use lessons back to your school.

Fee: 400 € per participant (VAT: reverse charge for EU organisations with a valid VAT ID, otherwise 22% Slovenian VAT included) · **Apply by:** 13 May 2027 · Apply online →

3. 19–23 July 2027

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia

5 DAYS · 30 H

Coding and Robotics for the Youngest: VEX 123 and GO for Ages 4–10

A five-day Erasmus+ course for kindergarten and early primary teachers: introduce coding, sequencing and first robotics to children aged 4 to 10 with VEX 123 and VEX GO, and take ready-to-use activities back to your setting.

Fee: 400 € per participant (VAT: reverse charge for EU organisations with a valid VAT ID, otherwise 22% Slovenian VAT included) · **Apply by:** 20 May 2027 · Apply online →

4. 26–30 July 2027

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia

5 DAYS · 30 H

Teaching with AI: Practical Tools and Ethics for Teachers

A five-day Erasmus+ course for teachers of all subjects: use AI tools to plan lessons and save time, teach students to use AI critically, and learn the ethics, privacy and rules every school needs to know.

Fee: 400 € per participant (VAT: reverse charge for EU organisations with a valid VAT ID, otherwise 22% Slovenian VAT included) · **Apply by:** 27 May 2027 · Apply online →

There is no online payment: your organisation receives an invoice. A course is confirmed as soon as the minimum number of participants has applied. Questions? info@robotech.si · +386 70 390 664 · robotech.si/erasmus

Erasmus+ Organisation ID E10436304. The courses are eligible for Erasmus+ KA1 funding; they are not accredited or endorsed by the European Commission or a National Agency. Generated 8 November 2026 from the current course pages.



ERASMUS+ KA1 · COURSE FOR SCHOOL EDUCATION STAFF

VEX IQ Robotics for Teachers: Hands-on STEM Course in Ptuj

A five-day, hands-on course for primary and lower-secondary teachers: build and program VEX IQ robots, explore AI vision, and bring challenge-based STEM learning back to your school.

DATES	VENUE	DURATION	LANGUAGE
26–30 April 2027	RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia	5 days · 28 hours	English

COURSE FEE

400 €

per participant · whole 5-day course

Apply online

Open the application form →

Applications until 25 February 2027. Maximum 16 participants; the course is confirmed as soon as at least 6 participants have applied, and at the latest 60 days before the start. There is no online payment: your organisation receives an invoice.

RoboTech, mag. Oliver Buček · Erasmus+ Organisation ID E10436304 · info@robotech.si · +386 70 390 664

The course at a glance

Who it is for

Teachers of primary and lower-secondary schools (roughly ages 8–14), STEM, technology and computing teachers, and teachers who want to start or lead a school robotics club.

What you need

No robotics or programming experience is required. Participants need a working knowledge of English (about B1) and their own laptop.

After this course you will be able to

- Build and program VEX IQ robots and guide students through the same steps.
- Use sensors, including the AI vision sensor, to design simple autonomous behaviours.
- Plan robotics lessons that support maths, science, technology and computing objectives.
- Apply challenge-based and collaborative learning methods and assess student work fairly.
- Set up and run a school robotics club and prepare students for friendly competitions.
- Create a concrete implementation plan for their own school and share practice with colleagues from other European countries.

What we cover

VEX IQ in the classroom

The VEX IQ system, building techniques and classroom management with robot kits.

Coding and sensors

From block-based programming to text-based coding in VEXcode IQ, and working with sensors.

AI vision and computational thinking

Introducing AI concepts through the VEX AI vision sensor and age-appropriate activities.

Challenge-based, cross-curricular learning

Designing projects, rubrics and assessment that connect robotics to school subjects.

Teamwork and robotics clubs

Competition formats, team roles, and how to organise a robotics club in your school.

European exchange

Comparing curricula and school practice with teachers from other countries and planning future cooperation.

How we teach

The course is learning by doing: roughly two thirds of every day are practical work with VEX IQ kits, in pairs and small international groups, and one third is short input, demonstration and discussion.

Each block follows the same cycle: try it yourself, reflect with peers, then plan how to adapt it for your own students. Participants receive worksheets, example lessons and project ideas they can use directly, and trainers give individual feedback during practical tasks.

Digital tools: VEXcode IQ for programming, and a shared online folder for materials and group work before, during and after the course.

Programme

28 hours of learning activities over 5 days. The programme describes likely activities; the trainers may adjust details to the group.

Monday 26 April 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Welcome and VEX IQ foundations

Introductions and tour of RoboTech STEM Center.

The VEX IQ system, building a classroom robot, first driving tasks and team challenges.

Tuesday 27 April 2027

09:00–13:00 learning session; 14:00–16:00 guided visit of Ptuj

4 H LEARNING

Cultural day: Ptuj and Slovenian schools

Public holiday in Slovenia.

Morning learning session: robotics and STEM in the Slovenian and other European curricula, and a guided visit of the historic town of Ptuj with informal networking.

Wednesday 28 April 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Programming and sensors

Block-based programming and a first step into text-based coding in VEXcode IQ.

Working with sensors; solving navigation and measurement problems.

Thursday 29 April 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

AI vision and challenge-based learning

Hands-on activities with the AI vision sensor.

Designing cross-curricular lessons, rubrics and assessment, and adapting activities for different ages and abilities.

Friday 30 April 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Competitions, implementation and certificates

VEX IQ competition formats and a friendly mini-tournament.

Personal implementation plans for your school, next steps, feedback and certificates.

Your trainers



mag. Oliver Buček

VEX robotics expert, RoboTech STEM Center

mag. Oliver Buček is a Certified VEX Educator, VEX IQ specialist and international conference speaker. He holds a master's degree in Pedagogics, is a Microsoft Innovative Educator, and leads RoboTech STEM Center in Ptuj, Slovenia, where he teaches robotics and STEM and trains teachers to bring VEX IQ into their classrooms.

For twelve years he has coordinated Erasmus+ projects and has completed more than ten that connect schools across Europe. He presents at education conferences in Slovenia and abroad, including in Portugal, Spain, Estonia, Finland and Croatia. Most recently, at the Education Summit 2026 in Guimarães, Portugal, he led two hands-on workshops in April 2026: one on AI vision sensors in VEX IQ and one on introducing the VEX AIR drone in the classroom.

He organises international VEX IQ competitions and mentors students in STEM. In 2024 he received the Inženirska iskra (Engineering Spark) Award for his dedicated mentoring of young people and outstanding promotion of VEX robotics in Slovenia and abroad. Three times he has travelled to the VEX Robotics World Championship in Dallas, USA, as coach and mentor of Slovenian teams.

Oliver believes in learning by doing and uses digital tools to make complex ideas accessible. He leads the course in a practical and supportive style, leaving plenty of room for questions and for exchange between participants.

The training provider

RoboTech STEM Center is a robotics and STEM education centre in Ptuj, Slovenia, run by mag. Oliver Buček. The centre offers robotics courses, holiday camps and workshops for children, and training for teachers and kindergarten teachers. It is a certified VEX robotics centre and a member of EdTech Slovenia.

Teacher workshops in VEX 123, VEX AIM, VEX GO and VEX IQ run regularly for Slovenian schools; this course brings the same practical approach to an international group.

European dimension

The course brings together teachers from several European countries. Group work is deliberately mixed by country, and time is reserved to compare school systems, share practice and explore ideas for future Erasmus+ cooperation, such as school partnerships and eTwinning projects. The course supports Erasmus+ priorities of digital transformation, inclusion and quality teaching.

Fee and terms

The fee includes

- Training and teaching materials
- Use of VEX IQ equipment during the course
- Training venue
- Coffee breaks and refreshments
- Cultural programme on Tuesday (guided visit of Ptuj)
- Certificate of attendance

Not included

- Accommodation
- Lunches and dinners
- Travel to Ptuj and local transport
- Travel and health insurance

Fee: €400 per participant (5-day course). EU schools and organisations with a valid VAT ID: reverse charge applies pursuant to Article 44 of EU VAT Directive 2006/112/EC (0% VAT); the amount is €400. Individuals and organisations without a VAT ID: the €400 includes 22% Slovenian VAT.

How to apply

1 · Apply
Send the online form by 25 February 2027. We reply within a few working days.

2 · We confirm
As soon as at least 6 participants are in, and at the latest 60 days before the start.

3 · Invoice
Your organisation receives an invoice. There is no online payment.

Application and selection

Places are allocated in the order in which complete applications are received (first come, first served). There is no separate selection test. We confirm receipt of your application by e-mail and reply within a few working days. When all places are taken, applications close automatically.

The course is marked "Confirmed" as soon as at least 6 participants have applied, and at the latest 60 days before the start, so you can book travel and accommodation with confidence. You can cancel free of charge until 60 days before the start.

Cancellation and changes

Cancellation by you: you can cancel free of charge until 60 days before the start. After confirmation we send an invoice. Your organisation can replace a participant free of charge if we are informed in advance.

Changes by us: if the fee, content, dates, location or schedule change significantly, you can cancel at no extra cost with reasonable notice.

If the course does not take place (for example, because the minimum number of participants is not reached) we inform you at the latest 60 days before the start and you pay nothing; any fee already paid is refunded in full.

Force majeure: in case of events beyond anyone's control, such as natural disasters or serious transport disruption, we agree on a new date or refund the fee for the part of the course that did not take place. Travel costs are covered by your own travel insurance.

Preparation before the course

About four weeks before the course we send practical information, a short questionnaire about your experience and goals, and instructions to install VEXcode IQ on your laptop (Windows, macOS or Chromebook). Please bring your own laptop and charger.

Practical information

Venue and access

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia. Free parking is available in front of the centre. Ptuj is about 1.5 h by car from Ljubljana and 1.5–2 h from Zagreb and Graz. Participants arrange their own accommodation and travel; Ptuj has a range of hotels and guesthouses, and we are happy to answer practical questions. The centre is accessible to participants with reduced mobility: there is a lift to the training room and a toilet at the centre. Please tell us in the application form about any further needs so that we can prepare the venue and the programme.

Contact

Oliver Buček, course leader

+386 70 390 664

info@robotech.si

RoboTech STEM Center

Čučkova ulica 5, 2250 Ptuj, Slovenia

Inclusion

The course is open to all teachers without discrimination. We adapt activities and materials to participants with special educational needs, as well as dietary and other requirements. Please tell us what you need in the application form.

Certificate

Every participant receives a certificate of attendance with their name, a short description of the course and its learning outcomes, dates, venue, the name of the training provider and of the trainer. The learning outcomes are written so that the certificate can be used together with Europass.

After the course

On the last day each participant prepares a personal implementation plan for their school. After the course you keep access to the shared materials and receive suggestions for next steps, such as extra online resources, robotics clubs and competitions you can join, and ideas for presenting the course to colleagues at your school.

Support, feedback and complaints

Before, during and after the course you can reach us at info@robotech.si; we answer within two working days. At the end of the course every participant fills in an anonymous evaluation form, and we use the results to improve the next course.

Complaints: write to info@robotech.si. We confirm receipt within three working days and answer within 14 days. Complaints are handled fairly and with respect, and the answer explains what we will change.

About Ptuj

Ptuj is the oldest recorded town in Slovenia. It lies on the river Drava in the north-east of the country, in a wine-growing region close to the Croatian border. The Romans founded Poetovio here, and the old town still has a medieval character: narrow streets, a castle above the river and a compact historic centre that is easy to explore on foot.

Worth seeing in the evenings and between sessions: Ptuj Castle with its museum collections, the Orpheus Monument, the town tower and the main square, the Dominican monastery, and the Ptuj wine cellar, one of the oldest in Slovenia. Local food and wine from the Haloze and Slovenske gorice hills are a good reason to stay for dinner. Ptuj is also known for Kurentovanje, its traditional carnival, which takes place in February.

Getting here: Ptuj has a railway station and a bus station within walking distance of the centre. Maribor is about 30 km away, Graz about 100 km, Zagreb about 100 km and Ljubljana about 130 km. The nearest international airports are Graz, Zagreb and Ljubljana. We are happy to help with directions and with choosing accommodation.



Photo: Marcin Gierszner (Yonashek), Wikimedia Commons, CC BY-SA 3.0



Photo: Mstegar, Wikimedia Commons, CC BY-SA 4.0

Brochure generated 8 November 2026 from the current course page (https://robotech.si/erasmus/vex-iq-robotics-for-teachers-hands-on-stem-course-in-ptuj). The course is eligible for Erasmus+ KA1 funding; it is not accredited or endorsed by the European Commission or a National Agency.



ERASMUS+ KA1 · COURSE FOR SCHOOL EDUCATION STAFF

Hands-on STEAM in the Classroom: low-cost experiments, robotics and outdoor science

A five-day Erasmus+ course for primary and lower-secondary teachers: run hands-on STEAM lessons with low-cost experiments, virtual robotics and outdoor science, and take ready-to-use lessons back to your school.

DATES	VENUE	DURATION	LANGUAGE
12–16 July 2027	RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia	5 days · 30 hours	English

COURSE FEE

400 €

per participant · whole 5-day course

Apply online

Open the application form →

Applications until 13 May 2027. Maximum 16 participants; the course is confirmed as soon as at least 6 participants have applied, and at the latest 60 days before the start. There is no online payment: your organisation receives an invoice.

RoboTech, mag. Oliver Buček · Erasmus+ Organisation ID E10436304 · info@robotech.si · +386 70 390 664

The course at a glance

Who it is for

Teachers of primary and lower-secondary schools (roughly ages 8–14): science, maths, technology, computing and art teachers, class teachers, and anyone who wants to bring practical STEAM activities into their lessons.

What you need

No special prior knowledge is required. Participants need a working knowledge of English (about B1) and their own laptop. Part of the programme takes place outdoors, so please bring weather-appropriate clothing and sturdy shoes.

After this course you will be able to

- Plan and lead hands-on STEAM lessons using the engineering design process and inquiry-based learning.
- Run safe, low-cost experiments (balloon cars, water rockets, a sundial, a cardboard robotic arm) and link them to maths, science, technology and art objectives.
- Use VEXCode VR to introduce coding and computational thinking in classes without robot hardware.
- Organise outdoor and field learning, including biodiversity observation in a local habitat, and manage risks outdoors.
- Assess practical student work with rubrics and feedback, and adapt activities for different ages, abilities and special educational needs.
- Create a concrete implementation plan for their own school and share practice with colleagues from other European countries.

What we cover

The hands-on STEAM cycle

Engineering design process and inquiry-based learning as a method that can be reused with any topic.

Low-cost experiments

Balloon cars, water rockets and a cardboard robotic arm: forces, measurement, design and iteration with simple materials.

Virtual robotics and coding

Block-based programming and computational thinking with VEXCode VR, with no hardware needed.

Learning outdoors

Field work at Ptuj Lake, a sundial, and how to plan and run safe outdoor lessons.

Assessment and inclusion

Rubrics, feedback and adapting activities for different ages, abilities and needs.

European exchange

Comparing curricula and school practice with teachers from other countries and planning future cooperation.

How we teach

The course is learning by doing: roughly two thirds of every day are practical work in pairs and small international groups, and one third is short input, demonstration and discussion.

Every activity follows the same cycle: try it yourself, measure and reflect with peers, improve the result, then plan how to adapt it for your own students. Participants receive worksheets, example lessons and assessment rubrics they can use directly, and trainers give individual feedback during practical tasks.

Digital tools: VEXCode VR for programming, digital tools for documenting field observations, and a shared online folder for materials and group work before, during and after the course.

Programme

30 hours of learning activities over 5 days. The programme describes likely activities; the trainers may adjust details to the group.

Monday 12 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Welcome, the hands-on STEAM approach and the cardboard robotic arm

Introductions, tour of RoboTech STEM Center and a shared picture of what participants want to take home.

The hands-on cycle that runs through the whole week: ask, imagine, plan, build, test, improve and reflect (engineering design process, inquiry-based learning).

First project in teams: design, build and improve a robotic arm made of cardboard, then discuss how the same task works with different ages.

Tuesday 13 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Forces and motion: balloon cars and water rockets

Morning at the centre: balloon-powered cars. Teams change one variable at a time, measure and compare results, and link the activity to forces, friction and data handling.

Afternoon outdoors in front of RoboTech STEM Center: water rockets. Safety briefing, launch rules, test flights and improvement rounds, and how to organise a safe launch with a whole class. In bad weather the rocket session moves to a prepared indoor alternative.

Wednesday 14 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Virtual robotics: integrating STEAM with VEXCode VR

Programming a virtual robot in the browser with VEXCode VR, with no hardware needed: block-based coding, sensors and navigation challenges in the VR playgrounds.

How to combine virtual and hands-on activities, plan cross-curricular lessons (maths, science, art, computing) and prepare classes that have only computers.

Thursday 15 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Learning outdoors: biodiversity at Ptuj Lake and the sundial

Morning field session at Ptuj Lake, a short walk from the centre, with guest lecturer Jure Urekar: Biodiversity in practice, what does Ptuj Lake hide? Observing and identifying plants and animals, documenting findings with digital tools and turning a local habitat into classroom material.

Afternoon outdoors at the centre: build and calibrate a sundial, and discuss how Earth, Sun and time connect to maths, geography and art. Risk assessment and organisation of outdoor learning with pupils.

Friday 16 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Assessment, implementation plans and certificates

Assessing practical work: rubrics, observation and feedback, and adapting activities for different ages, abilities and special educational needs.

Each participant presents a lesson idea from the week and prepares a personal implementation plan for their school. Evaluation, next steps, plans for future cooperation and certificates.

Your trainers



mag. Oliver Buček

VEX robotics expert, RoboTech STEM Center

mag. Oliver Buček is a Certified VEX Educator, VEX IQ specialist and international conference speaker. He holds a master's degree in Pedagogics, is a Microsoft Innovative Educator, and leads RoboTech STEM Center in Ptuj, Slovenia, where he teaches robotics and STEM and trains teachers to bring VEX IQ into their classrooms.

For twelve years he has coordinated Erasmus+ projects and has completed more than ten that connect schools across Europe. He presents at education conferences in Slovenia and abroad, including in Portugal, Spain, Estonia, Finland and Croatia. Most recently, at the Education Summit 2026 in Guimarães, Portugal, he led two hands-on workshops in April 2026: one on AI vision sensors in VEX IQ and one on introducing the VEX AIR drone in the classroom.

He organises international VEX IQ competitions and mentors students in STEM. In 2024 he received the Inženirska iskra (Engineering Spark) Award for his dedicated mentoring of young people and outstanding promotion of VEX robotics in Slovenia and abroad. Three times he has travelled to the VEX Robotics World Championship in Dallas, USA, as coach and mentor of Slovenian teams.

Oliver believes in learning by doing and uses digital tools to make complex ideas accessible. He leads the course in a practical and supportive style, leaving plenty of room for questions and for exchange between participants.



Jure Urekar

Guest lecturer, biodiversity

Jure Urekar is professor, youth trainer and workshop facilitator, with a bachelor's degree in pedagogics of biology and the English language. Cofounder of several local NGOs, he specializes in the fields of global education, sustainability and natural pedagogy. He worked in the frames of Erasmus projects for a decade before switching to formal education and combines the methodologies of both informal as well as formal educational models to maximize the efficiency of his efforts. Having worked on projects of various organizations he visited most of Europe, facilitated workshops and organized mobilities across several EU countries and enabled both youths and youth workers to grow personally as well as professionally. He utilized the environment as an effective classroom that offers a lot more than what we are used to from a regular room. The possibilities of observational as well as hands on activities increase exponentially once we start thinking of the possibilities "outside of the box". With combining the practical part with the theoretical, the activities become much more wholesome as well as memorable. As a nature enthusiast and environmental activist, Jure believes in a future where nature and technology will coexist. As we are shaping the world to our liking, we must not forget who will inherit the consequences of our choices and need to prepare the next generation to be able to critically assess and implement technological solutions that will bring balance and stability to the environment.

The training provider

RoboTech STEM Center is a robotics and STEM education centre in Ptuj, Slovenia, run by Oliver Buček s.p. The centre offers robotics courses, holiday camps and workshops for children, and training for teachers and kindergarten teachers. It is a certified VEX robotics centre and a member of EdTech Slovenia.

Teacher workshops in VEX 123, VEX AIM, VEX GO and VEX IQ run regularly for Slovenian schools; this course brings the same practical approach to an international group.

European dimension

The course brings together teachers from several European countries. Group work is deliberately mixed by country, and time is reserved to compare school systems, share practice and explore ideas for future Erasmus+ cooperation, such as school partnerships and eTwinning projects. The course supports Erasmus+ priorities of the green transition (nature and biodiversity, learning outdoors), digital transformation, inclusion and quality teaching.

Fee and terms

The fee includes

- Training and teaching materials
- All building and experiment materials for the hands-on activities
- Free access to VEXCode VR (runs in the browser on your laptop)
- Training venue and field session at Ptuj Lake
- Coffee breaks and refreshments
- Certificate of attendance

Not included

- Accommodation
- Lunches and dinners
- Travel to Ptuj and local transport
- Travel and health insurance

Fee: €400 per participant (5-day course). EU schools and organisations with a valid VAT ID: reverse charge applies pursuant to Article 44 of EU VAT Directive 2006/112/EC (0% VAT); the amount is €400. Individuals and organisations without a VAT ID: the €400 includes 22% Slovenian VAT.

How to apply

1 · Apply
Send the online form by 13 May 2027. We reply within a few working days.

2 · We confirm
As soon as at least 6 participants are in, and at the latest 60 days before the start.

3 · Invoice
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Application and selection

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Preparation before the course

About four weeks before the course we send practical information, a short questionnaire about your experience and goals, and the link to VEXCode VR. Please bring your own laptop and charger. For the outdoor sessions bring a sun hat, sun protection, a water bottle, sturdy shoes and clothing for changing weather; we will tell you in advance if anything else is useful.

Practical information

Venue and access

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia. Free parking is available in front of the centre. Ptuj is about 1.5 h by car from Ljubljana and 1.5–2 h from Zagreb and Graz. Participants arrange their own accommodation and travel; Ptuj has a range of hotels and guesthouses, and we are happy to answer practical questions. The centre is accessible to participants with reduced mobility: there is a lift to the training room and a toilet at the centre. Please tell us in the application form about any further needs so that we can prepare the venue and the programme.

The field session takes place at Ptuj Lake, which is within walking distance of the centre; we walk there together. Outdoor activities have an indoor alternative at the centre in case of bad weather. Please tell us in the application form if you need an accessible route or other adjustments for the outdoor sessions.

Contact

Oliver Buček, course leader

+386 70 390 664

info@robotech.si

RoboTech STEM Center

Čučkova ulica 5, 2250 Ptuj, Slovenia

Inclusion

The course is open to all teachers without discrimination. We adapt activities and materials to participants with special educational needs, as well as dietary and other requirements. Please tell us what you need in the application form.

Certificate

Every participant receives a certificate of attendance with their name, a short description of the course and its learning outcomes, dates, venue, the name of the training provider and of the trainer. The learning outcomes are written so that the certificate can be used together with Europass.

After the course

On the last day each participant prepares a personal implementation plan for their school. After the course you keep access to the shared materials and receive suggestions for next steps, such as extra online resources, ideas for outdoor and hands-on lessons, and ways to present the course to colleagues at your school.

Support, feedback and complaints

Before, during and after the course you can reach us at info@robotech.si; we answer within two working days. At the end of the course every participant fills in an anonymous evaluation form, and we use the results to improve the next course.

Complaints: write to info@robotech.si. We confirm receipt within three working days and answer within 14 days. Complaints are handled fairly and with respect, and the answer explains what we will change.

About Ptuj

Ptuj is the oldest recorded town in Slovenia. It lies on the river Drava in the north-east of the country, in a wine-growing region close to the Croatian border. The Romans founded Poetovio here, and the old town still has a medieval character: narrow streets, a castle above the river and a compact historic centre that is easy to explore on foot.

Worth seeing in the evenings and between sessions: Ptuj Castle with its museum collections, the Orpheus Monument, the town tower and the main square, the Dominican monastery, and the Ptuj wine cellar, one of the oldest in Slovenia. Local food and wine from the Haloze and Slovenske gorice hills are a good reason to stay for dinner. Ptuj is also known for Kurentovanje, its traditional carnival, which takes place in February.

Getting here: Ptuj has a railway station and a bus station within walking distance of the centre. Maribor is about 30 km away, Graz about 100 km, Zagreb about 100 km and Ljubljana about 130 km. The nearest international airports are Graz, Zagreb and Ljubljana. We are happy to help with directions and with choosing accommodation.



Photo: Marcin Gierszner (Yonashek), Wikimedia Commons, CC BY-SA 3.0



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ERASMUS+ KA1 · COURSE FOR SCHOOL EDUCATION STAFF

Coding and Robotics for the Youngest: VEX 123 and GO for Ages 4–10

A five-day Erasmus+ course for kindergarten and early primary teachers: introduce coding, sequencing and first robotics to children aged 4 to 10 with VEX 123 and VEX GO, and take ready-to-use activities back to your setting.

DATES	VENUE	DURATION	LANGUAGE
19–23 July 2027	RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia	5 days · 30 hours	English

COURSE FEE

400 €

per participant · whole 5-day course

Apply online

Open the application form →

Applications until 20 May 2027. Maximum 16 participants; the course is confirmed as soon as at least 6 participants have applied, and at the latest 60 days before the start. There is no online payment: your organisation receives an invoice.

RoboTech, mag. Oliver Buček · Erasmus+ Organisation ID E10436304 · info@robotech.si · +386 70 390 664

The course at a glance

Who it is for

Kindergarten teachers, early primary teachers and class teachers (children aged roughly 4–10), teaching assistants, and anyone who wants to bring first coding and robotics activities to the youngest learners.

What you need

No robotics or programming experience is required. Participants need a working knowledge of English (about B1) and their own laptop or tablet.

After this course you will be able to

- Explain how play-based robotics supports early maths, language, science and social skills.
- Use VEX 123 and VEX GO to run short, safe and engaging coding and building activities with children aged 4 to 10.
- Introduce sequencing, loops, conditions and debugging, first without a screen and then with VEXcode 123 and VEXcode GO.
- Plan cross-curricular lessons and story-based projects, and adapt them for different ages, abilities and special educational needs.
- Observe and assess young learners with simple checklists, photos and portfolios.
- Create a concrete implementation plan for their own kindergarten or school and share practice with colleagues from other European countries.

What we cover

Play-based coding

Sequencing, loops and debugging through play, stories and tangible programming.

VEX 123

The 123 robot, cards, tiles and Coder for children aged 4 to 8, with and without a screen.

VEX GO

Building, simple machines, sensors and block-based coding for ages 6 to 10.

Cross-curricular projects

Stories, measurement and design tasks that link robotics to maths, language and science.

Assessment and inclusion

Observation, portfolios and adapting activities to different ages, abilities and needs.

European exchange

Comparing early years and primary practice with teachers from other countries.

How we teach

The course is learning by doing: roughly two thirds of every day are practical work with VEX 123 and VEX GO kits, in pairs and small international groups, and one third is short input, demonstration and discussion.

Participants first take the role of the child, then the role of the teacher: try an activity, reflect with peers, then plan how to adapt it for their own group. They receive activity cards, example lessons and observation sheets they can use directly, and trainers give individual feedback during practical tasks.

Digital tools: VEXcode 123 and VEXcode GO for programming, and a shared online folder for materials and group work before, during and after the course.

Programme

30 hours of learning activities over 5 days. The programme describes likely activities; the trainers may adjust details to the group.

Monday 19 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Welcome, play-based learning and VEX 123

Introductions and tour of RoboTech STEM Center.

Why robots work for the youngest learners: play, curiosity and first steps in sequencing. Hands-on with VEX 123: the robot, the cards and tiles, first coding without a screen and the first challenges in the classroom field.

Tuesday 20 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Coding with VEX 123 and VEXcode 123

From tangible coding to screen coding: programming 123 with the Coder, then with the simple block-based environment of VEXcode 123.

Story-based tasks, sequences, loops and debugging; how to plan a 20 to 30 minute robot activity for a group of 4 to 7 year olds, and how to manage the kits in a busy classroom.

Wednesday 21 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Building and moving with VEX GO

Building with VEX GO: structures, simple machines and mechanisms with a clear design goal.

First driving and moving tasks, measuring, estimating and comparing; linking the building to maths, science and language objectives for ages 6 to 10.

Thursday 22 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Coding and STEM projects with VEXcode GO

Programming GO robots and sensors in VEXcode GO: blocks, loops, conditions and simple data.

Cross-curricular projects: a robot that tells a story, a measurement challenge and a team design task. Adapting the same activity for different ages, abilities and special educational needs.

Friday 23 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Assessment, implementation plans and certificates

Observing and assessing young learners: checklists, photos, portfolios and feedback that suits early years and early primary education.

Each participant presents an activity from the week and prepares a personal implementation plan for their kindergarten or school. Evaluation, next steps, plans for future cooperation and certificates.

Your trainers



mag. Oliver Buček

VEX robotics expert, RoboTech STEM Center

mag. Oliver Buček is a Certified VEX Educator, VEX IQ specialist and international conference speaker. He holds a master's degree in Pedagogics, is a Microsoft Innovative Educator, and leads RoboTech STEM Center in Ptuj, Slovenia, where he teaches robotics and STEM and trains teachers to bring VEX IQ into their classrooms.

For twelve years he has coordinated Erasmus+ projects and has completed more than ten that connect schools across Europe. He presents at education conferences in Slovenia and abroad, including in Portugal, Spain, Estonia, Finland and Croatia. Most recently, at the Education Summit 2026 in Guimarães, Portugal, he led two hands-on workshops in April 2026: one on AI vision sensors in VEX IQ and one on introducing the VEX AIR drone in the classroom.

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Oliver believes in learning by doing and uses digital tools to make complex ideas accessible. He leads the course in a practical and supportive style, leaving plenty of room for questions and for exchange between participants.

The training provider

RoboTech STEM Center is a robotics and STEM education centre in Ptuj, Slovenia, run by mag. Oliver Buček. The centre offers robotics courses, holiday camps and workshops for children, and training for teachers and kindergarten teachers. It is a certified VEX robotics centre and a member of EdTech Slovenia.

Teacher workshops in VEX 123, VEX AIM, VEX GO and VEX IQ run regularly for Slovenian schools; this course brings the same practical approach to an international group.

European dimension

The course brings together early years and primary teachers from several European countries. Group work is deliberately mixed by country, and time is reserved to compare curricula and early learning practice and to explore ideas for future Erasmus+ cooperation, such as school partnerships and eTwinning projects. The course supports Erasmus+ priorities of digital transformation, inclusion and quality teaching.

Fee and terms

The fee includes

- Training and teaching materials
- Use of VEX 123 and VEX GO equipment during the course
- Training venue
- Coffee breaks and refreshments
- Certificate of attendance

Not included

- Accommodation
- Lunches and dinners
- Travel to Ptuj and local transport
- Travel and health insurance

Fee: €400 per participant (5-day course). EU schools and organisations with a valid VAT ID: reverse charge applies pursuant to Article 44 of EU VAT Directive 2006/112/EC (0% VAT); the amount is €400. Individuals and organisations without a VAT ID: the €400 includes 22% Slovenian VAT.

How to apply

1 · Apply
Send the online form by 20 May 2027. We reply within a few working days.

2 · We confirm
As soon as at least 6 participants are in, and at the latest 60 days before the start.

3 · Invoice
Your organisation receives an invoice. There is no online payment.

Application and selection

Places are allocated in the order in which complete applications are received (first come, first served). There is no separate selection test. We confirm receipt of your application by e-mail and reply within a few working days. When all places are taken, applications close automatically.

The course is marked "Confirmed" as soon as at least 6 participants have applied, and at the latest 60 days before the start, so you can book travel and accommodation with confidence. You can cancel free of charge until 60 days before the start.

Cancellation and changes

Cancellation by you: you can cancel free of charge until 60 days before the start. After confirmation we send an invoice. Your organisation can replace a participant free of charge if we are informed in advance.

Changes by us: if the fee, content, dates, location or schedule change significantly, you can cancel at no extra cost with reasonable notice.

If the course does not take place (for example, because the minimum number of participants is not reached) we inform you at the latest 60 days before the start and you pay nothing; any fee already paid is refunded in full.

Force majeure: in case of events beyond anyone's control, such as natural disasters or serious transport disruption, we agree on a new date or refund the fee for the part of the course that did not take place. Travel costs are covered by your own travel insurance.

Preparation before the course

About four weeks before the course we send practical information, a short questionnaire about your experience and goals, and instructions to open VEXcode 123 and VEXcode GO on your device. Please bring your own laptop or tablet and charger.

Practical information

Venue and access

RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia. Free parking is available in front of the centre. Ptuj is about 1.5 h by car from Ljubljana and 1.5–2 h from Zagreb and Graz. Participants arrange their own accommodation and travel; Ptuj has a range of hotels and guesthouses, and we are happy to answer practical questions. The centre is accessible to participants with reduced mobility: there is a lift to the training room and a toilet at the centre. Please tell us in the application form about any further needs so that we can prepare the venue and the programme.

Contact

Oliver Buček, course leader

+386 70 390 664

info@robotech.si

RoboTech STEM Center

Čučkova ulica 5, 2250 Ptuj, Slovenia

Inclusion

The course is open to all teachers without discrimination. We adapt activities and materials to participants with special educational needs, as well as dietary and other requirements. Please tell us what you need in the application form.

Certificate

Every participant receives a certificate of attendance with their name, a short description of the course and its learning outcomes, dates, venue, the name of the training provider and of the trainer. The learning outcomes are written so that the certificate can be used together with Europass.

After the course

On the last day each participant prepares a personal implementation plan for their kindergarten or school. After the course you keep access to the shared materials and receive suggestions for next steps, such as extra activity ideas, ways to start a robotics corner and ways to present the course to colleagues.

Support, feedback and complaints

Before, during and after the course you can reach us at info@robotech.si; we answer within two working days. At the end of the course every participant fills in an anonymous evaluation form, and we use the results to improve the next course.

Complaints: write to info@robotech.si. We confirm receipt within three working days and answer within 14 days. Complaints are handled fairly and with respect, and the answer explains what we will change.

About Ptuj

Ptuj is the oldest recorded town in Slovenia. It lies on the river Drava in the north-east of the country, in a wine-growing region close to the Croatian border. The Romans founded Poetovio here, and the old town still has a medieval character: narrow streets, a castle above the river and a compact historic centre that is easy to explore on foot.

Worth seeing in the evenings and between sessions: Ptuj Castle with its museum collections, the Orpheus Monument, the town tower and the main square, the Dominican monastery, and the Ptuj wine cellar, one of the oldest in Slovenia. Local food and wine from the Haloze and Slovenske gorice hills are a good reason to stay for dinner. Ptuj is also known for Kurentovanje, its traditional carnival, which takes place in February.

Getting here: Ptuj has a railway station and a bus station within walking distance of the centre. Maribor is about 30 km away, Graz about 100 km, Zagreb about 100 km and Ljubljana about 130 km. The nearest international airports are Graz, Zagreb and Ljubljana. We are happy to help with directions and with choosing accommodation.



Photo: Marcin Gierszner (Yonashek), Wikimedia Commons, CC BY-SA 3.0



Photo: Mstegar, Wikimedia Commons, CC BY-SA 4.0

Brochure generated 8 November 2026 from the current course page (https://robotech.si/erasmus/coding-and-robotics-for-the-youngest-vex-123-and-go-for-ages-4-10). The course is eligible for Erasmus+ KA1 funding; it is not accredited or endorsed by the European Commission or a National Agency.



ERASMUS+ KA1 · COURSE FOR SCHOOL EDUCATION STAFF

Teaching with AI: Practical Tools and Ethics for Teachers

A five-day Erasmus+ course for teachers of all subjects: use AI tools to plan lessons and save time, teach students to use AI critically, and learn the ethics, privacy and rules every school needs to know.

DATES	VENUE	DURATION	LANGUAGE
26–30 July 2027	RoboTech STEM Center, Čučkova ulica 5, 2250 Ptuj, Slovenia	5 days · 30 hours	English

COURSE FEE

400 €

per participant · whole 5-day course

Apply online

Open the application form →

Applications until 27 May 2027. Maximum 16 participants; the course is confirmed as soon as at least 6 participants have applied, and at the latest 60 days before the start. There is no online payment: your organisation receives an invoice.

RoboTech, mag. Oliver Buček · Erasmus+ Organisation ID E10436304 · info@robotech.si · +386 70 390 664

The course at a glance

Who it is for

Teachers of all subjects in primary, lower-secondary and upper-secondary schools (roughly ages 8–18), school leaders and school staff who want to use AI confidently, safely and responsibly.

What you need

No technical knowledge is required. Participants need a working knowledge of English (about B1) and their own laptop. We use tools with free access, so no paid accounts are needed.

After this course you will be able to

- Explain in simple terms how generative AI works, what it can and cannot do, and why its answers must be checked.
- Use AI tools to plan lessons, differentiate tasks, and prepare materials and assessments, and check and adapt the results to their curriculum.
- Design classroom activities that build students' AI literacy and critical thinking.
- Apply the basics of data protection (GDPR), copyright, bias and the EU AI Act when using AI in school.
- Assess student work fairly when AI is available, and write a short classroom or school AI policy.
- Create a concrete implementation plan for their own school and share practice with colleagues from other European countries.

What we cover

Understanding AI

How generative AI works, its strengths and limits, and why it sometimes gets things wrong.

AI for planning and materials

Prompting, lesson planning, differentiation, rubrics and a personal prompt library.

AI with students

Tasks that build AI literacy, fact-checking and critical thinking at different ages.

Ethics, privacy and rules

GDPR, copyright, bias, wellbeing and the EU AI Act in school practice.

Assessment and academic integrity

Process-based tasks and transparent use of AI in student work.

European exchange

Comparing school policies and practice with teachers from other countries.

How we teach

The course is learning by doing: roughly two thirds of every day are practical work with AI tools in pairs and small international groups, and one third is short input, demonstration and discussion.

Each block follows the same cycle: try the tool on a real teaching task, check and improve the result with peers, discuss the risks, then plan how to use it with your own students. Participants receive example prompts, lesson templates and a policy template they can use directly, and trainers give individual feedback during practical tasks.

Digital tools: freely available AI assistants and image tools, and a shared online folder for materials and group work before, during and after the course. Tools change quickly, so we focus on methods that work with any of them.

Programme

30 hours of learning activities over 5 days. The programme describes likely activities; the trainers may adjust details to the group.

Monday 26 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Welcome and understanding AI

Introductions and tour of RoboTech STEM Center.

What generative AI is and is not: how language and image models work at a level teachers can explain to students, what they do well, where they fail and why they sometimes invent facts. First hands-on tasks with chat assistants and a shared set of prompting techniques.

Tuesday 27 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

AI for planning and teaching materials

Using AI as a planning assistant: lesson ideas, differentiated tasks, rubrics, quizzes and worksheets in several levels of difficulty.

Critical checking of AI output, adapting it to your curriculum and language, and building a personal prompt library. Practical lab: each participant prepares a lesson they can use on their return.

Wednesday 28 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

AI in the classroom with students

Activities where students work with AI: investigating answers, comparing sources, fact-checking and creating with image tools.

Designing tasks that build AI literacy and critical thinking rather than copying; age-appropriate use and classroom management. A hands-on look at AI that sees: image recognition and AI vision as a way to explain how machines learn.

Thursday 29 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Ethics, privacy and the rules

Responsible use: personal data and GDPR in practice, what never to paste into a tool, bias, transparency, copyright and student wellbeing.

The EU AI Act and school policies in a nutshell, academic integrity and assessment in the age of AI, and how to write a short classroom or school AI policy together.

Friday 30 July 2027

09:00–16:00 (lunch 12:30–13:30)

6 H LEARNING

Assessment, implementation plans and certificates

Assessing work when students may use AI: process-based tasks, oral explanations and transparent AI use statements.

Each participant presents a lesson or policy idea from the week and prepares a personal implementation plan for their school. Evaluation, next steps, plans for future cooperation and certificates.

Your trainers



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VEX robotics expert, RoboTech STEM Center

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European dimension

The course brings together teachers from several European countries. Group work is deliberately mixed by country, and time is reserved to compare national guidance on AI in schools, share practice and explore ideas for future Erasmus+ cooperation, such as school partnerships and eTwinning projects. The course supports Erasmus+ priorities of digital transformation, inclusion and quality teaching.

Fee and terms

The fee includes

- Training and teaching materials, prompt library and policy template
- Access to the tools used in the course during the training
- Training venue
- Coffee breaks and refreshments
- Certificate of attendance

Not included

- Accommodation
- Lunches and dinners
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Preparation before the course

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Practical information

Venue and access

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Contact

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After the course

On the last day each participant prepares a personal implementation plan for their school. After the course you keep access to the shared materials and receive suggestions for next steps, such as updated tool lists, ideas for staff training and ways to present the course to colleagues at your school.

Support, feedback and complaints

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