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KA201: Strategic Partnerships for school education



RoboPisces

**"innovative educational ROBOTics
strategies for PrImary School Experiences"**

Newsletter No.10





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Editorial

Dear RoboPisces follower,

It is time to say goodbye to the project activities, but not to the project implementation. In fact, all of the school partners of the RoboPisces project have firmly committed to keep developing and implementing activities in their classroom. After such a great impact on students' engagement with the project, and after so many positive feedback received by both students and parents, schools seriously want to treasure this experience.

Moreover, new interested schools are already preparing teachers and toolkits to explore the curriculum with their students in primary and secondary school.

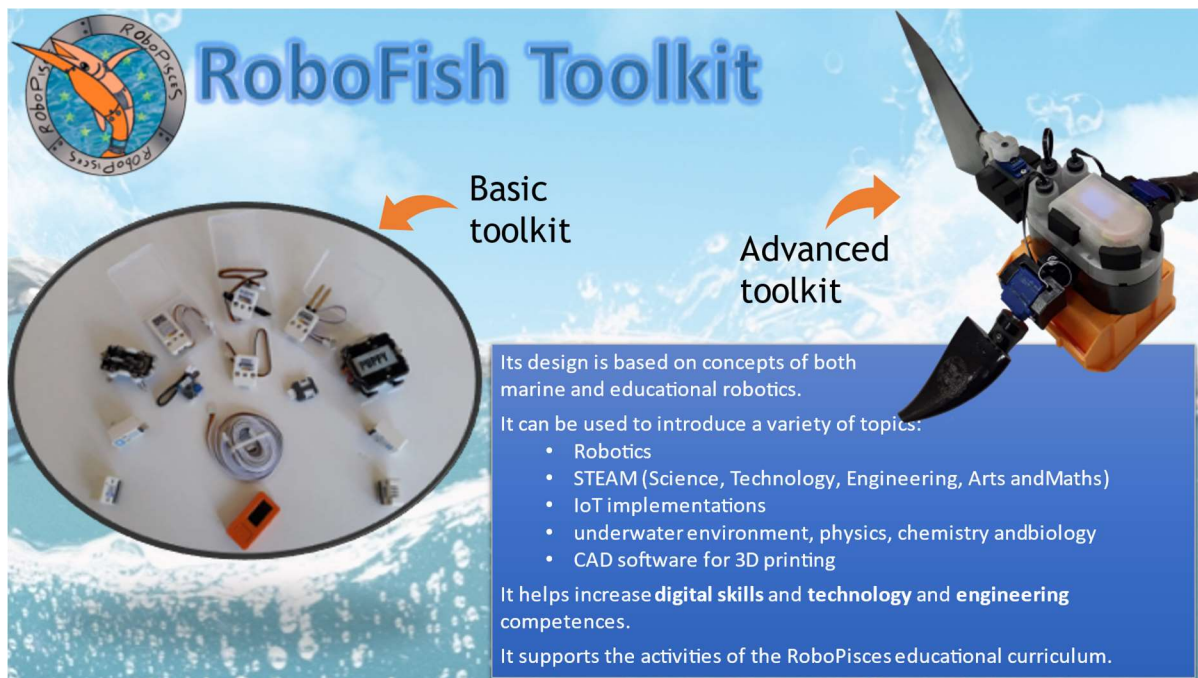
Thanks everybody for supporting us and keep following our future activities on social networks and website (www.robopisces.eu).

The RoboPisces team





The Intellectual Outputs of the project



RoboFish Toolkit

Basic toolkit

Advanced toolkit

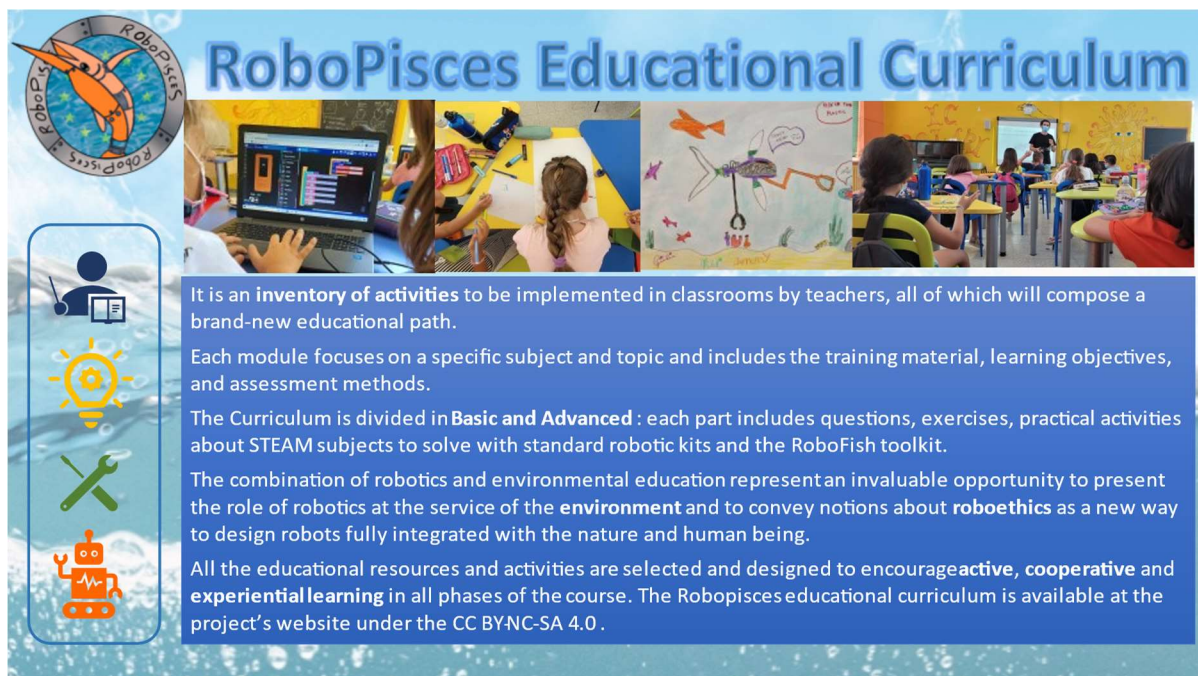
Its design is based on concepts of both marine and educational robotics.

It can be used to introduce a variety of topics:

- Robotics
- STEAM (Science, Technology, Engineering, Arts and Maths)
- IoT implementations
- underwater environment, physics, chemistry and biology
- CAD software for 3D printing

It helps increase **digital skills** and **technology and engineering** competences.

It supports the activities of the RoboPisces educational curriculum.



RoboPisces Educational Curriculum

It is an **inventory of activities** to be implemented in classrooms by teachers, all of which will compose a brand-new educational path.

Each module focuses on a specific subject and topic and includes the training material, learning objectives, and assessment methods.

The Curriculum is divided in **Basic and Advanced** : each part includes questions, exercises, practical activities about STEAM subjects to solve with standard robotic kits and the RoboFish toolkit.

The combination of robotics and environmental education represent an invaluable opportunity to present the role of robotics at the service of the **environment** and to convey notions about **roboethics** as a new way to design robots fully integrated with the nature and human being.

All the educational resources and activities are selected and designed to encourage **active, cooperative and experiential learning** in all phases of the course. The Robopisces educational curriculum is available at the project's website under the CC BY-NC-SA 4.0 .




Teacher training manual



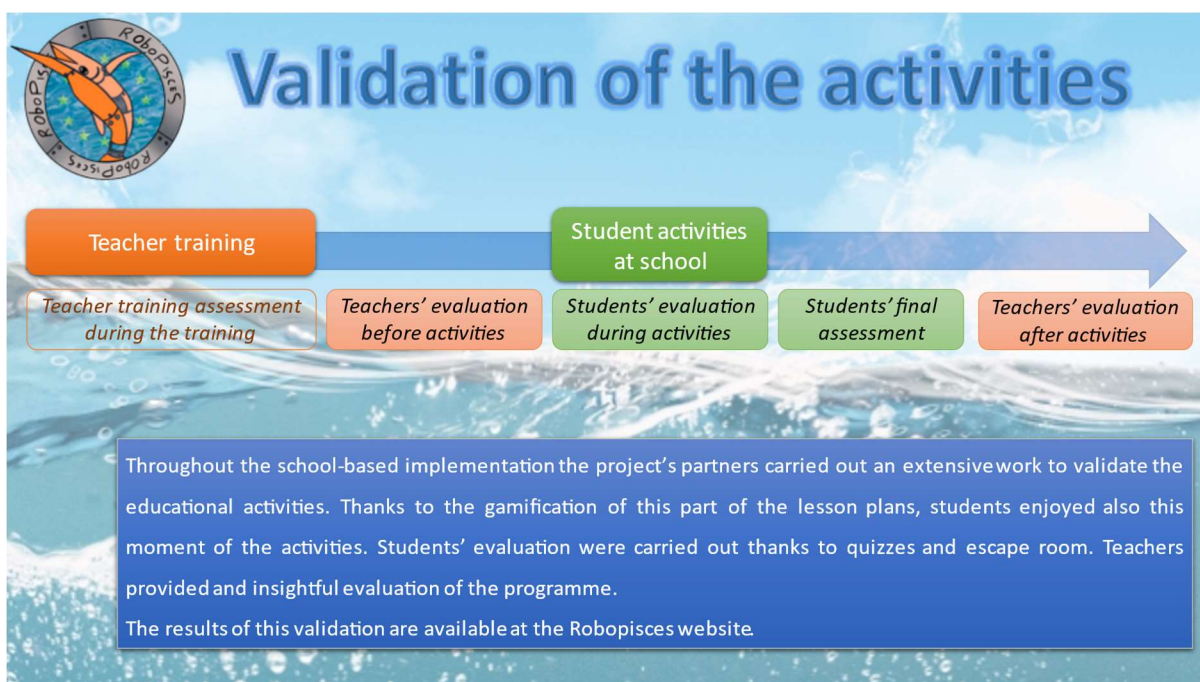



It is a comprehensive training tool with instructions and ideas for creating the whole learning experience for students. It aims at enabling teachers to master the **technical and pedagogical skills** necessary for using the robotic technology in school to be able to develop their own robotics activities using innovative, student-centred and constructivist pedagogical approaches.

The manual contains three main sections: the first one is about the educational aspects of how to introduce Robotics into the classroom and on the main robotics concepts about robotics, IoT and Marine Robotics; the second one is about the production of excellent OERs for your classroom; the third one is about the experience carried out at partner school.

The teacher training manual is available at the project's website under the CC BY-NC-SA 4.0

Validation of the RoboPisces Curriculum





UCD Science Festival

The official RoboPisces Multiplier Event organised by NUID UCD at their premises in Dublin showcases the toolkit RoboFish to primary school kids, teachers and parents. The event highlights the many benefits of implementing Educational Robotics activities in the classroom. By constructing and programming robots, in fact, students are encouraged to use their own creative ideas and solutions.

ICICTE 2022

The official RoboPisces Multiplier Event organised by UAegean at Rhodes, Greece takes place as a back-to-back event with the last transnational meeting of the project. A series of events framed within the ICICTE 2022 conference aim at showcasing the experiences carried out by universities and schools during the past three years of the project. A rich programme dedicated to the RoboPisces activities within the general conference engages participants in hands-on workshop, challenges and speeches. Each partner gets the chance to share what has been learnt and accomplished thanks to the RoboPisces Erasmus+ project in their school and university.





ATEE 2022

#ATEE2022

**Welcome to the
ATEE 2022 Annual Conference**
To Be, or Not to Be a Great Educator

The official RoboPisces Multiplier Event organised by LU at Riga, Latvia, during the ATEE2022 conference showcases the experiences carried out by universities and schools during the past three years of the project. The ATEE 2022 conference "To be or not to be a great educator" is organised by the Association for Teacher Education in Europe (ATEE), a non-profit European organization, whose aim is to enhance the quality of Teacher Education in Europe and support the professional development of teachers and teacher educators at all levels. Experts from the scientific community will join the RoboPisces event to meet and discuss the RoboPisces experience with teacher training during the "Innovations for teacher education" event.



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