



envientaTM

LEARN TO DO IT YOURSELF



EDUCATION

There are plenty of affiliate services around the open source model, that help to grow the ENVIENTA cosmo-localization framework exponentially. Education is clearly one of them. In collaboration with local universities and business partners, we will continue to establish a wide variety of education related services and activities. We offer a rich environment for learning about the mainstreaming of sustainability and progressing a commons approach in innovation.

Some of these courses and MOOCS are free of charge and available online thanks to the commons approach. Educating in useful techniques to address local and global challenges, inspiring and empowering citizens, students, cultural workers, entrepreneurs, adult educators, facilitators of change, coaches and communities wanting to develop collaborative and participatory practices to empower social change and steward resources. ENVIENTA is committed to creating positive global impact through the millions of people who will benefit from our ongoing programs and activities.



ENVIENTA innovation hubs are vibrant places, through case studies, you can see how progressive projects successfully integrated into traditional local communities. We offer a rich environment for learning about the mainstreaming of sustainability and progressing a commons approach. Of course a self-sustainable innovation hubr also has its challenges, and contributing to its ever-developing life will provide another opportunity for learning unexpected things by doing.

The blending of people with different skills and backgrounds, from within the peer-to-peer, commons and sustainability movements and the community of practitioners offers unprecedented opportunities for learning and the emergence of novel synergies. Sharing our practices, knowledge and experiences within the setting of the emerging ecosystem of innovation that is the ENVIENTA will offer many great benefits for individuals, communities and beyond.



■ COMMONS MANAGEMENT PROGRAM

Located in the ENVIENTA innovation hubs, we practice engaging with others to create impact that lasts longer and is more sustainable than anything we can accomplish on our own. Together we maintain and govern the infrastructures that benefit the public as a whole and beyond. Many roads lead to the commons: the collaborative economy, open culture, technology and knowledge sharing, shared meaning-making, protecting biodiversity, seed saving, our natural resources, and more.



└ THE CORE OF OUR INQUIRY CENTRES ON THE FOLLOWING QUESTIONS:

- What becomes possible when we harness our collective capacity in service of the commons?
- How can the commons, peer-to-peer and participatory approaches support the transition to a more sustainable way of life?
- Can we create livelihoods through co-operatives that enrich and sustain the commons?
- How can a commons-based collaborative economy strengthen the resilience of our communities?

└ WHAT SHOULD YOU EXPECT?

The course will be grounded in the actual practice of collaboration and finding synergies. Some theoretical input, will also be offered – mostly in short modules. The overall aim is to balance and integrate concrete learning outcomes for all. Explorations are likely to cover topics such as new forms of cooperative enterprise, P2P money, crowdfunding, open value accounting, P2P legal developments, etc. You will also learn how to better design conversations that invite full participation and engagement.

└ WHO IS THIS FOR?

If you are a citizen, student, entrepreneur, cultural worker, adult educator, facilitator of change, coach or working with your local community and wanting to develop collaborative and participatory practices to empower social change and steward resources, then the ENVIENTA course is for you. No matter your level of experience, or area of interest and activity, you are sure to take home many new insights and practices for your own commons project whatever it is about. Not to mention new friends and transformative experiences. You will be able to see many commons initiatives and key sustainable community systems in working practice and hear the stories of people seeking to play their part in the transition to a low carbon society.



■ SELF SUFFICIENCY COURSES

└ ENERGY MANAGEMENT, PRODUCTION & STORAGE

Learn to become energy self sufficient and to understand different methods of generating, storing and using electricity, from hydro and solar to wind generators.

- Save money through making homes more efficient and renewable energy
- Learn about energy management, generation, storage and management
- Become aware of domestic energy usage



└ PERMACULTURE & HOME GARDENING

Permaculture is a growing way of life for many people - it incorporates sustainable living methods - both social and practical. It has a common sense approach to how we design our properties (large or small) to make them functional for us and to have a low impact on the environment at the same time.

- Become more self sufficient and environmentally friendly
- Spend less - supplement your needs with production from even a small home garden; or
- Become a Permaculture Designer / Consultant

This is a good starting point for those who have little experience in aero- or hydroponics; whose main interest is in growing at home. You will learn the theory behind aero- and hydroponic culture, as well as receive first hand practical experience as you set up your own basic aero- and hydroponic system. This unique course covers the essentials of aero- and hydroponics. Gain skills and understanding in:

- Nutrient solutions, plant nutrition
- Aeroponic & Hydroponic systems, greenhouses
- Nutrient films and soil media
- Plant culture and more.

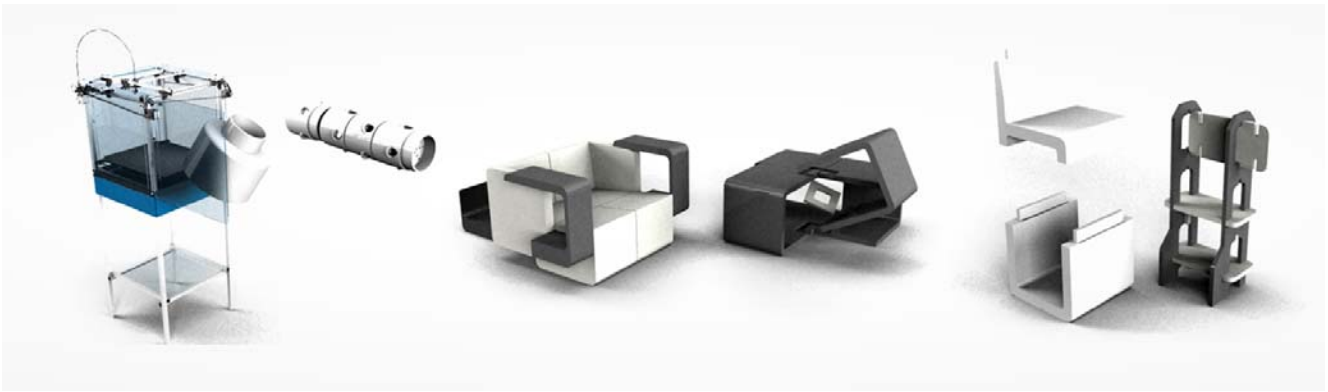




└ 3D MODELING & PRINTING

The course will uncover the core processes behind 3D printing and reveal one of the most powerful capabilities of the 3D printing revolution - that it's accessible to anyone. It will help you turn your idea into reality.

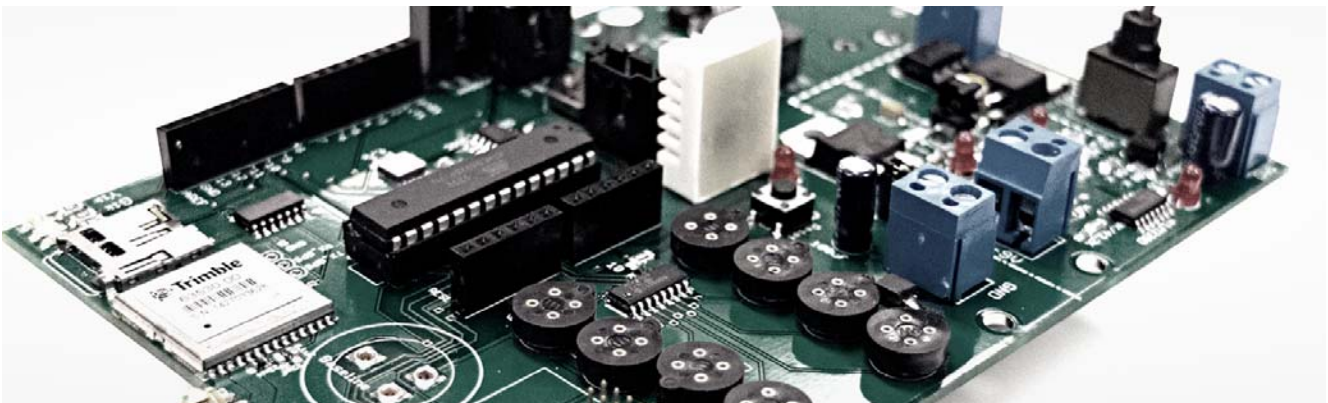
- Brief introduction to the history and applications of 3D printing, overview of how 3D printing works, review of design file types and formats
- Draw or sketch your design by creating an outline, extrude a 3D model from a 2D file, prepare your model using basic 3D modeling tools
- Basics of controlling and modifying 3D objects, rotate 3D models in your workplane
- Import your 3D model as an STL file, scale and adjust your design
- Combine two shapes to create an articulated/interlocking design
- Prepare a 3D design file for print. How to use the equipment properly and safely?
- Reviewing the rules and guidelines to using the 3D printer



└ HOME AUTOMATION COURSES

SMART HOME TECHNOLOGY This course offers an excellent introduction to components and to building a smart home system from the ground up. If you want to be an electronics hacker, building your own control systems and components rather than just installing them, you will find this course useful.

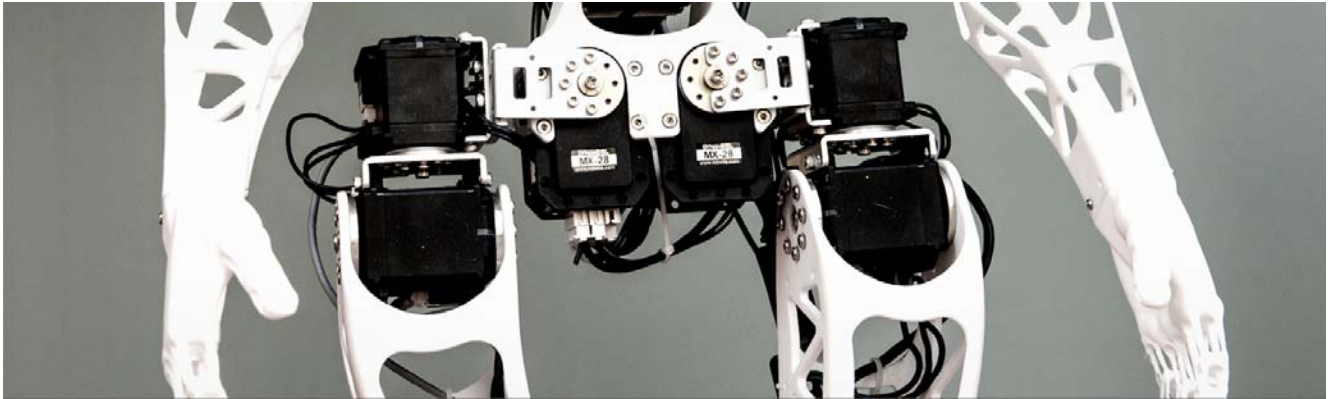
- Controlling automated devices in a home via internet
- Interface options and software application to monitor the devices remotely from any computer that has an internet connection, or from any Smartphone/PDA.
- Hardware options for smart home technology applications





ROBOTICS The purpose of this course is to introduce you to basics of modeling, design, planning, and control of robot systems. In essence, the material treated in this course is a brief survey of relevant results from geometry, kinematics, statics, dynamics, and control.

- Foundations in kinematics, dynamics, control
- Motion planning, trajectory generation, programming and design.



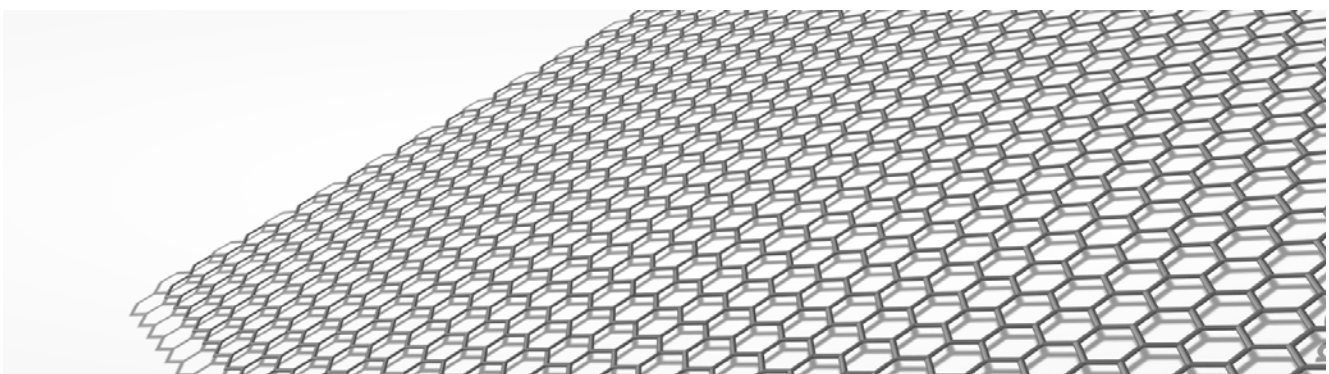
SENSOR TECHNOLOGIES FOR INTERACTIVE ENVIRONMENTS This course is a broad introduction to a host of sensor technologies, illustrated by applications drawn from human-computer interfaces and ubiquitous computing. After extensively reviewing electronics for sensor signal conditioning, the lectures cover the principles and operation of a variety of sensor architectures and modalities.

- Pressure, strain, displacement, proximity, thermal, electric and magnetic field
- Optical, acoustic, RF, inertial, and bioelectric
- Simple sensor processing algorithms and wired and wireless network

└ **NANOTECHNOLOGY COURSE**

The course provides a background of the understanding, motivation, implementation, impact, future, and implications of nanotechnology. We will also discuss specific applications of nanotechnology in electronic devices, biomedical fields, environmental solutions, and energy production.

- Introducing nanotechnology
- The size and shape dependent properties at the nanometer scale
- Enhanced physical properties of nanomaterials
- Nanoparticles & how to synthesize them
- Applications of nanotechnology in engineering, biomedical, energy, and environmental fields





■ INVOLVING UNIVERSITIES



"At its most general level, what distinguishes holistic education from other forms of education are its goals, its attention to experiential learning, and the significance that it places on relationships and primary human values within the learning environment."

DR. ROBIN ANN MARTIN

Assistant Professor
Graduate School of Education, Bilkent University



└ OUR GOALS

Holistic education is a philosophy of education based on the premise that each person finds identity, meaning, and purpose in life through connections to the community, to the natural world, and to humanitarian values such as compassion and peace. Located in local universities, our mission is to educate, inspire and empower individuals, communities, entrepreneurs and business leaders to apply useful technics to address local and global challenges. ENVIENTA is committed to creating positive global impact through the millions of people who benefit from our programs and activities.

└ GRADUATE STUDIES PROGRAM

The program convenes community leaders, entrepreneurs, and technologists from around the world in a 3 months collaborative experience to develop team-based technology solutions to widespread global challenges. During the program, ENVIENTA challenges participants to design sustainable global solutions in team projects, leveraging exponential trends, innovation and the power of entrepreneurship.

└ EXECUTIVE PROGRAM

These are week-long intensive and interactive programs for business, non-profit and government organizations' leaders including executives, entrepreneurs, academics, government leaders and influencers interested in learning about the technologies and tools needed to understand and respond to the current wave of accelerating change.



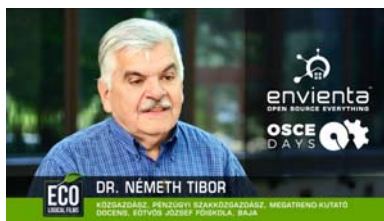
EDUCATION RELATED ACTIVITIES

CONFERENCES AND ENVIENTA SUMMITS

ENVIENTA offers a series of specialized programs, conferences and summits focused on the use of exponential technologies to address global grand challenges and to secure an abundance of food, water, energy, security, global health, security, education, environment.



It is complemented by cutting-edge practitioners and thinkers, experts in their respective fields who serve as guest lecturers, mentors and advisors. The faculty includes scientists, engineers, entrepreneurs, and researchers from European and US major educational institutions, and experts and executives from different fields.





└ INTERNSHIP PROGRAM

ENVIENTA offer a crucial pathway to future employment and experience for the next generation of community leaders and innovators. Through this ongoing program, we're collaborating with certain schools to give students more opportunities and to develop their skills.

Students spend a minimum of eight weeks at our organization. Internships offer a range of exposure and skill-building opportunities in areas such as environmental sustainability, commons management, community economic development, 21st century peer-production, communications, fundraising and social media.

Students with a holistic mindset, using their creativity to apply alternative solutions gain an insight into research and development and learn about exponential technologies that can accelerate innovation through an open source maker movement. In addition to the internship, students will have the opportunity to connect with other interns in the program and participate in on-going professional development throughout the summer.

└ RESEARCH AND DEVELOPMENT

The goal is developing and maintaining our open source project designed specifically to support an R&D community. Testing, research and development of alternative or renewable energy inventions, devices, products and concepts for a cleaner and greener environment. ENVIENTA works with academics, researchers, students and communities within and also outside universities.

Whether you are an organisation or individual entrepreneur, a world-leading or early-career researcher, or a student entrepreneur with exciting ideas you will find that ENVIENTA has people with the experience, knowledge, networks and expertise to assist. Some examples of the support we can provide includes:

- Funding opportunities
- Project management of open source research programmes
- Business acceleration through ENVIENTA Open Source Everything
- Student enterprise: access for students to ideas, advice, space, and start-up funding to get your ideas going





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OPEN SOURCE EVERYTHING

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