UPM IMPACT in SDG10
Reduced Inequalities
EELISA ACITIVITIES AROUND SDG10

Trabajo Fin de Titulación en Cooperación Internacional para el Desarrollo Sostenible (TFT-CIDS)

Description

ExperimentaMates+ODS is a Citizen Laboratory promoted by SSERIES community.

A Citizen Laboratory is a meeting, experimentation and learning place where people with different knowledge and profiles collaborate to develop projects to improve life together.

In Autumn 2021, we promoted the first call of ExperimentaMates as part of the pilot experience of the Network of Citizen Laboratories of the Community of Madrid of universities and research centers promoted by the Madri+d Foundation for Knowledge within the framework of the distributed Citizen Laboratories program. Citizen innovation in libraries and other cultural institutions of the Spanish Ministry of Culture and Medialab Prado.

This fall (2022) we return with the second edition of the citizen laboratory: ExperimentaMates+SDG, linked to the Sustainable Development Goals (SDGs). This laboratory wants to bring together all people in the university and non-university spheres to listen to each other, share experiences and build bridges between the different professional areas or areas of interest with mathematics to design projects within the framework of the SDGs. This second edition will be 100% face-to-face in the Community of Madrid using the spaces of the Classroom Workshop-Museum of Mathematics. Main objectives: Value mathematics as a tool to develop projects related to the SDGs. Create a meeting point for people from diverse disciplines to use mathematics to achieve the SDGs. Engage students from all stages of the educational process in mathematics and SDGs. To explore and analyze the interdisciplinary teaching of the scientific curriculum at the university level in relation to the EELISA credential.

Community	SSERIES: Science for Sustainably Envisioning Reality and Information for an Engaged Society		
Coordinator	m.barbero@upm.es	ECTS	
Kind of activity	Workshop		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG 4 - Quality Education
Starting date	2022-09-01	Ending date	2023-08-31
Target group	all	Teaching mode	Hybrid
Link	https://community.eelisa.eu/activities/citizenship-laboratory-experimentamates/		

Metaverse & Sustainability student community kick-off event

Description

Students payed attention to the fundamentals of accessibility and discussed its aplication to key societal challenges starting from the experience of four different professionals from private entities such as an architecture board, an ICT small company, an inclusive laboral centre and a law firm.

Community	Tech Diplomacy & International Cooperation		
Coordinator	miguelangel.valero@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG11 - Sustainable Cities & Communities|SDG 4 - Quality Education
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/retos-de-la-accesibilidad-en-el-dia-a-dia-accesibilidad-accesible/		

On-site visit to an industrialized construction

Description

Que los estudiantes lean el blog "Accesible", reflexionen sobre accesibilidad para todos los públicos, traduzcan al inglés y publiquen sus reflexiones, resúmenes, extractos en nuestro blog de la comunidad. Sería una actividad permanente para el curso que viene. Es una manera de aprender y crear sensibilidad en torno a este tema. Sería una actividad abierta a toda la comunidad EELISA.

Community	Tech Diplomacy & International Cooperation		
Coordinator	miguelangel.valero@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG11 - Sustainable Cities & Communities|SDG 4 - Quality Education
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/reflexion-debate-y-publicacion-en-ingles-en-el-blog-de-la-comunidad-eelisa-de-cuestiones-publicadas-en-el-blog-accesible-de-miguel-angel-valero/		

Measurement platforms suited for environmental contaminants

Description

In this course, students will learn about citizen laboratories ways of doing and designing their own citizen laboratory in a neighborhood, a university or a public library.

LEARNING GOALS

Understand: Explains the basics of a citizen laboratory

Apply: implements CL fundamentals to generate calls for participation (creation and collaborators)

Analyze: Analyze the results of the calls (participation, profiles, number of ideas proposed,...).

Create: Plan the creation of a citizen laboratory on a given subject matter

SYLLABUS

What is a citizen laboratory?Genealogies and traditions of citizen laboratoriesCitizen laboratories in popular cultureMapping problems, desires, opportunities. Open calls for ideas and collaborators. Cultural mediationHow to deal with the plurality and complexity of the worldCollaborative prototyping workshops: Documentation / knowledge sharingA Planet of Citizen Laboratories

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	jorgeenrique.perez@upm.es	ECTS	1
Kind of activity	Workshop		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG11 - Sustainable Cities & Communities|SDG 4 - Quality Education
Starting date	2022-07-18	Ending date	2022-07-22
Target group	all	Teaching mode	Synchronous remote
Link	https://community.eelisa.eu/activities/how-to-set-up-a-citizen-laboratory-cl-2/		

Towards nitrogen neutrality in agricultural systems, a way for sustainable Food Production.

Description

A practical project will be developed using the Service Learning methodology. (Learn by performing a service to a specific group).

The student will analyze a reality of his environment, and will look for a need to which he will give a solution. The solution will be related to one of the technologies that the student studies in his training. You will apply your technical knowledge to reach a solution that improves the quality of life of the environment in which you operate.

Interaction with institutions eligible to participate will be facilitated. The technical training in which the student will perform the service will be reinforced, and training will be carried out in the skills necessary to be able to give the chosen service.

Students will leave the classroom to perform the service in collaboration with the entities that in their case join the project.

The reflections and conclusions of the service carried out and the corresponding self-evaluations of the students who have lived the process will be collected.

Community	Ethics, Social Commitment & Entrepreneurship		
Coordinator	domingoalfonso.martin@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG11 - Sustainable Cities & Communities|SDG17 - Partnerships for the Goals|SDG 4 - Quality Educ
Starting date	2022-02-21	Ending date	2022-05-26
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/?post_type=eelisa_activity&p=1210		

Innovation & Leadership

Description

Global Challenge Formación offers different courses along the academic year with various topics that aim to make students know and better understand some of the most relevant challenges of the global context, their causes and consequences, as well as reflect on the different options (personal and collective) that can be undertaken to face them. The courses are developed through a moodle platform so that students can choose their pace of learning and participation. It is not necessary to do all of them, being able to choose those that are of greater interest for each person.

Global Challenge is an inter-university transformative learning program that fosters competencies in sustainability, creating meaningful learning environments that are committed to student engagement and empowerment, innovation and care. The objective is to address the questioning of the beliefs that support the current paradigms on inequalities, our relationship with nature, well-being, our capacity to transform reality, and people's empowerment to collectively lead initiatives for change.

Community	Tech Diplomacy & International Cooperation|Ethics, Social Commitment & Entrepreneurship		
Coordinator	globalchallenge.ongawa@gmail.com	ECTS	1
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG12 - Responsible Consumption & Production|SDG13 - Climate Action|SDG 4 - Quality Education|SD
Starting date	2022-10-01	Ending date	2023-05-07
Target group	master|bachelor|phd	Teaching mode	Asynchronous remote
Link	https://community.eelisa.eu/activities/global-challenge/		

Workshop: "IT tools for teaching and learning in air transport"- University of Strasbourg

Description

A deep-dive into AI Ethics

Get a taste of current debates on AI Ethics at an international level – with the chance to try out interdisciplinary scientific work in a European setting!

In this summer school, participants will learn basic technical knowledge about AI & get to know basics of AI Ethics. They will also enjoy great discussions with high-level AI Ethics experts & other stakeholders and engage in case-based ethical thinking & collaboratively develop practical solutions.

Organized by UPM, FAU and SSSA.

Access all the info and keynote speakers HERE

Registration for FAU candidates

REGISTER VIA MAIL TO:Hannah.Bleher@fau.de /eva.maria.hille@suhail-m-azeezfau-de

The final selection of participants will be based at random selection.

Community	Test|Ethics, Social Commitment & Entrepreneurship		
Coordinator	jesus.salgado@upm.es	ECTS	
Kind of activity	Summer / Winter / Seasonal schools		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG16 - Peace, Justice & Strong Institutions|SDG 9 - Industry, Innovation & Infrastructure
Starting date	2022-06-20	Ending date	2022-06-24
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/summer-school-artificial-intelligence-ethics-human-rights-at-upm/		

EELISA Innovation Talks #2 – The Future of E-Mobility: Great Challenges and Opportunities for European Societies

Description

Equip students with fundamental or transversal skills for professional practice.

Teamworking

1.1. Development of professional activity as a team

1.2. Tasks of participation, delegation, coordination

1.3. Establishment of initial agreements

1.4. Scope of a project. Activities, capacities and decisions

1.5. Work planning

Leadership

2.1. Self-confidence, self-criticism, objectivity and firmness

2.2. Communication, serenity and transparency

23. Perception and sensitivity, empathy

2.4. Conflict resolution: delegation and negotiation

2.5. Team supervision and management

Planning and organization

3.1. Goal setting

3.2. Choice of the most convenient means and resources

3.3. Decision making prior to action

3.4. Planning of actions prior to the action and their scheduling: time, scope and degree of detail of the actions

3.5. Curriculum vitae and job interviews

Community	Ethics, Social Commitment & Entrepreneurship		
Coordinator	david.diaz@upm.es	ECTS	4,5
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG17 - Partnerships for the Goals
Starting date	2022-02-01	Ending date	2022-05-20
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/?post_type=eelisa_activity&p=1226		

Manual transport of drinking water in countries without a distribution network

Description

The project has a twofold objective. On the one hand, the goal is to improve the employability and physical and mental health of young people from deprived backgrounds. On the other hand, to promote value education, students will act as mentors and instructors in different activities to learn themselves. For that purpose, two types of integrated activities are proposed:

Sports activities that favour physical and mental health. Students will be coordinated by the professors from the INEF (The Faculty of Sciences for Physical Activity and Sport), and they include two complementary blocks. First, the design, implementation and monitoring of individual training programmes to foster self-esteem and personal care. Second, games and innovative team sports (i. e., Kinball, Tchoukball) to develop communication and teamwork skills.

Technological training workshops to promote their self-esteem and favour their integration into the employment market. It will be focused on Scratch (https://scratch.mit.edu/) with an introduction to video game programming. Besides, it also includes activities to improve communication skills within social networks for job search, with guidelines for the development of content and a professional profile.

In any case, a group of professors will be responsible for these activities, coordinating and providing all the necessary support. It is planned to use an area within the UPM facilities for the participants to study and work, it may be a motivating element for them to get involved. At the end, they will receive a diploma during an academic ceremony to which families will be invited. The estimated duration will be between 80-100 hours.

Assessment:

Participation in the different activities and accompaniment in the training of young people who participate in the program

Questionnaire / report for monitoring and evaluating the project

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	jorgeenrique.perez@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG17 - Partnerships for the Goals|SDG 3 - Good Health & Well-Being|SDG 4 - Quality Education
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/student-mentoring-project-get-active/		

Food Waste Hackaton @EELISA: Too Good to Go

Description

San Cristóbal de los Ángeles, in Villaverde district, is probably the most depressed neighbourhood in Madrid, which has the lowest families' income and the highest absolute unemployment rate within the city. In addition, there is a high rate of early school leaving among its young people.Casa San Cristóbal, belonging to the Montemadrid Foundation, is the leading social and cultural centre in the neighbourhood. Its different activities, events, courses and supporting programmes aimed at people in the neighbourhood of any social status and age group.

One of the most significant programmes of Casa San Cristóbal is the school-based support programme, focused on boys and girls who are currently in Primary Education or the first cycle of Secondary Education who, for different reasons, find it difficult to follow their academic year with optimal performance.The mission of this Service-Learning activity is to provide them with direct online school support to ensure they can successfully complete the year as smoothly as possible. The subjects in which they need support are: Mathematics, Physics, Chemistry, English and Spanish Language.In order to offer personalised attention, the format of the support classes will be one-to-one tuition. Participants, both tutors and children will be aligned according to their respective profiles.

Each tutor will help their pupil with their homework provided by the educational centre. When the tutor deems it necessary, the tutor may carry out support and remedial exercises, which will be available for the tutor on the learning platform.

To ease the pupils' task and to understand their background, tutors will be provided with basic training taking about 3 hours Besides, tutors will have the support of the centre volunteering coordinator and teachers involved in the project.At all times, UPM students will be actively involved in the project development, since they are the direct mentors and instructors of children and teenagers participating in the programme. Therefore, the students' activities are the following:

Participating in previous training workshops in relation to the context in which the activity will take place.Acting as instructors and mentors of the children and teenagers who will take part in the programme. Teaching online classes for school-based support.Attending and participating in both individual and group follow-up sessions regarding the course development.Cooperating in the collection of required information for the programme follow-up and assessment.Supporting dissemination activities. Being involved in events in order to share your experiences and the results.

Assessment:

Taking part in the different activitiesQuestionnaire/report for monitoring and assessing the project

Community	Egalitarian Societies: Opportunities for Everyone (ES: O4E)		
Coordinator	consuelo.fernandez@upm.es	ECTS	2
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG17 - Partnerships for the Goals|SDG 4 - Quality Education
Starting date	2021-01-01	Ending date	2021-12-31
Target group	master|bachelor	Teaching mode	In person
Link	https://community.eelisa.eu/activities/iteach-school-based-support-at-casa-san-cristobal/		

Innovation in mobility - guest lecture on impact investing & decarbonisation

Description

The activity involves the collaboration between UPM undergraduate students and "Empieza por Educar (ExE)" foundation, through its project Change Your World (Cambia tu Mundo - CTM). ExE is an independent, non-profit foundation committed to promoting educational equity in Madrid and Catalonia, so that all students, focusing on the most vulnerable, can have the same opportunities thanks to education.

"Cambia tu Mundo - Change your world" (CTM) is a program that offers an opportunity to both teachers and students between 9 and 20 years old (Primary, Secondary, Baccalaureate and Basic Vocational Training) to respond to the needs in their environment, in order to promote the social and environmental commitment.

By training teachers in educational methodologies, Sustainable Development Goals, and technological tools, they replicate the learning methods in class to create projects that will be presented in a final event all together with the rest of the participants. Through the next link provided you can see a summary of the last edition, which was virtual (https://www.youtube.com/watch?v=ERYS4zjUGRQ).

The new edition pursues a hybrid format, where while the trainings are online, both the accompaniment of teachers and the final event, are in person.

By participating in this activity, UPM students will interact with the organizers of Change Your World as well as with the participating classes (teachers and students) to whom they are assigned, with the aim of providing technological support in the Learning and Service projects. This way, the UPM mentors will guide the professor through the design of the solution and creation of the prototype, backed by their knowledge in programming and robotics as well as relying on the training received.

Additionally, UPM students may also collaborate as volunteers or listeners in the final event. At the end of the school year, they will receive a diploma that will certify their participation throughout the development of the project.

Finally, volunteers will make a report about the needs detected and posible improvements to the STEM training of teachers and students, as well as a blog of the solutions designed and a summary of the Mentorized Service-Learning projects. Finally, an evaluation of the entire process will be carried out, both by the student mentors and the teachers involved, the school teams and the CTM organizers.

Community	Designing a Sustainable and Decarbonized University (DISCOVERY)		
Coordinator	Susana.sastre@upm.es	ECTS	
Kind of activity	Course / Seminar		
Principal SDG	SDG10 - Reduced Inequalities	Others SDG	SDG17 - Partnerships for the Goals|SDG 4 - Quality Education
Starting date	2021-01-01	Ending date	2021-12-31
Target group	bachelor	Teaching mode	Hybrid
Link	https://community.eelisa.eu/activities/aprendemos-juntos-para-cambiar-nuestro-mundo-mentoria-de-proyectos-aps-en-la-escuela/		