





Project:	Network of Competence on Internet of Things [NEON]
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Work Package 7:	Dissemination and exploitation of the project outcomes
Title:	D7.5 Report on yearly webinars (hosted in turn by the HEIs partners) broadcasted to all locations
Lead Organization:	UCU
Participating Organization:	UNI-KLU, UC3M, UNC, UNS, UNMDP, UdelaR, UCU, INCUTEX, ALASSIO, ALENET, TEAC, EYCON, ALLIANSYS SRL, Santex, TELECOM ARGENTINA S.A, CONTROLNET S. A., ABM ingeniería y sistemas S.R.L., UTE, CONAE.
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	Work Package and				
	Outcome ref.nr	WP7 D7.5			
	Title	Report on yearly webinars (hosted in turn by the HEIs partners) broadcasted to all locations			
Deliverable data	Туре	□ Learning material X	 K Event K Report □ Service / Product 		
	Description	The document provides a resume of the topics presented at the three webinars intended to address the following issues of the NEON project: i) Webinar 1: presentation of the study programs, tips on study engineering targeting enrolled and prospective students (pupils). ii) Webinar 2: presentation of the NoC structure and partners iii) Webinar 3: presentation on new/modernized IoT courses offered by Neon.			
	Date	14.01.24			
	Language	English			
Target groups	 ☑ Teaching staff ☑ Students ☑ Trainees ☑ Administrative staff ☑ Technical staff ☑ Librarians ☑ Industry partners, Hig 	sher education authorities			
	□ Department /		☐ National		
Dissemination level	Faculty				
		🛛 Regional	International		
WP Lead Organization	UCU				
Participating Organizations	UNI-KLU, UC3M, UNC, U	NS, UNMDP, UdelaR, UCU.			
Task	the form of a webinar	y event (hosted in turn by to broadcasted to all locations n studying engineering ta upils.	s to present the study		

		Revision History		
Version	Date	Author(s)	Organization(s)	Brief description of change
1	14.12.23	G. Corral Briones	UNC	Draft Report
2	1401.23	Benigno Rodriguez Diaz	UdeLaR	Draft Report

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1. Introduction

As part of the dissemination plan to promote project activities, webinars have been offered and made accessible to a large public that includes students, engineers working in the industry, and academic trainers. The aims of the webinars focused on the presentation of

- Study programs related to IoT, tips on studying engineering targeting enrolled and prospective students/pupils
- The NoC to industry, the public sector, and the academy.
- New developed courses and laboratories to industry and academy

2. Objectives of the Deliverable

The objective of this report is to describe the characteristics of the three webinars organized by UNC, UdeLaR, and UMdP. In addition, the results will also be reported in terms of audience and dissemination achieved. Finally, the conclusions are presented.

First Webinar

The main objective of this webinar was to present to enrolled students the opportunities for academic training on IoT-related topics, offered by institutions of the Neon consortium. The academic offers by the five Argentinian and Uruguayan institutions along with the two European ones were presented in this first webinar.

To assess the interest in the webinar's topics, we show the number of people who received the email invitation and manifested interest in it and the number of participants discriminated by their locations.

The topics addressed were:

What is IoT, and why is it important for prospective engineers?A gentle introduction to IoT was presented using daily examples, as shown in Fig. 1.

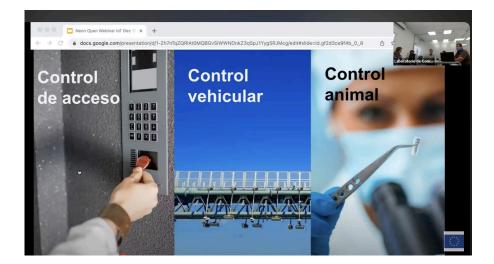


Fig.1 Daily IoT examples

- Academic offer related to IoT at
 - Universidad Carlos Tercero de Madrid. Fig. 2 shows Professor Ana Armada presenting Masters programs



Fig. 2 Master programs at UC3M

• University of Klagenfurt Fig. 3 shows the presentation of Klagenfurt University

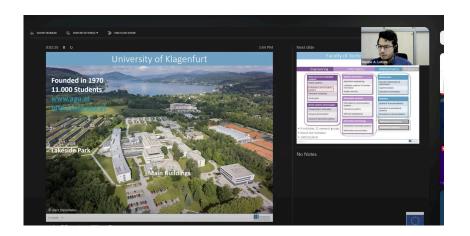


Fig3. Presentation of the University of Klagenfurt

• Universidad de la Reública de Uruguay. Fig. 4 shows the topics addressed by UdeLaR

Agenda

1.- Desarrollo en IIE/FING/UDELAR del Área IoT (Proyectos, Convenios, Cursos, Posgrados)

2.- Proyectos de Investigación (ejemplos)

3.- Carreras de Grado: Ing. Eléctrica e

Ing. en Sistemas de Comunicación

4.- Espacio para Preguntas

Fig. 4 Agenda addressed by UdeLar

 Universidad Católica del Uruguay. Fig. 5 shows the new laboratory and course offered by UCU



Fig. 5: IoT laboratory and course at UCU

• Universidad Nacional del Sur. Fig. 6 shows the agenda addressed by UNS



Fig. 6: UNS agenda

• Universidad Nacional de Mar del Plata. Fig. 7 shows new courses related to IoT presented by UNMDP

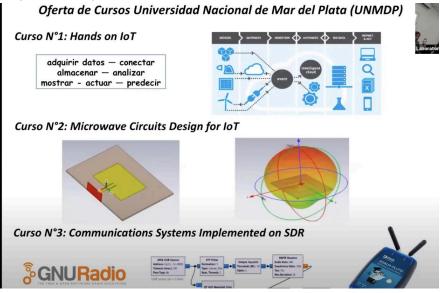


Fig. 7 New courses related to IoT at UNMdP

• Universidad Nacional de Córdoba. Fig.8 shows academic offers related to IoT, presented by UNC



Fig. 8 Academic offers related to IoT at UNC

Webinar Analytics

Invitations to the webinar were sent by email attaching the flyer shown in Annex 1.

We present two analytics to assess the webinar's success. The first one, shown in Annex 2, displays how many people received the email invitation and opened it. An email tracking tool has been used to send and resend the 176 email invitations and report on the number of emails opened. We can conclude that more than 50% of the email invitations were successfully received.

The second analytics, shown in Annex 2, displays the number of registrants, discriminated by their locations, participating in the webinar. The attendance was successful as shown by the number of connecting people at Zoom, which was higher than the people who opened the email invitation.

Second Webinar

The main objective of the second webinar was to present the structure of the Network of Competence (NoC).

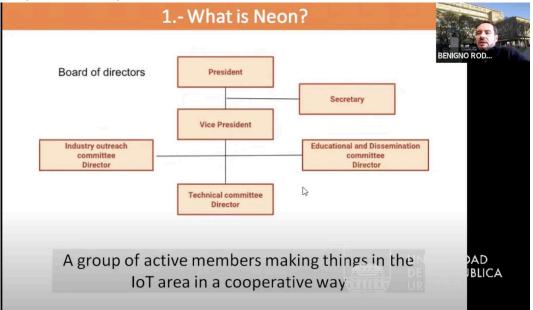
The topics addressed were:

What is the proposal of the Neon project to strengthen the connection between the academy and local industries?
 Dr. Topello, presented the Neon project pointing out the achieved results and the peet step to

Dr. Tonello presented the Neon project pointing out the achieved results and the next step to further strengthen the collaboration between academy and local industries, and potentially extend it to European academy and industries.

Network of	Competence on IoT proyecto en resum
ERASM	US+ KA02 Project: Capacity Building in Higher Education
Duración:	3 años (2021-2023)
Presupuesto:Objetivo:	~1 MEuros Refuerzo de las relaciones entre los centros de enseñanza superior y el entorno económico y social en general
Partners:	 EU Universidad de Klagenfurt (Austria) Universidad Carlos III de Madrid (España) Argentina
	 Universidad Nacional de Córdoba Universidad Nacional del Sur Universidad Nacional de Mar del Plata
	Incutex SRL Uruguay Universidad de la República Universidad Católica del Uruguay Alassio SA ALENET SA

• What is the value Neon project offers and how to become a member? Dr. Rodriguez from UdeLaR presented the organizational design of the Network of Competence and explained how to become a member of the NoC.



Success stories achieved at the two-year last of the Neon project.
 Dr. Cousseau from UNS presented the results achieved by the five Latin American institutions and the immediate benefits that new members can take advantage of, like open events that gather academies and industries, online courses, and internships.

- Final remarks by Dr. Victor Gil Jiménez from UC3M Final remarks
 - How to join the network:
 - <u>neon-iot.org/index.php/es/</u>
 - <u>NEON New Member Registration Form / Formulario de Registro de Nuevos</u> <u>Miembros de NEON (google.com)</u>
 - Next events:
 - Eventos IoT (neon-iot.org)



Webinar Analytics

The invitation to the webinar is shown in Annex 4. There were 62 new registered members at the event.

Third Webinar

This last webinar focused on the new courses and material developed during the three years of the Neon project.

The topics addressed were:

• Presentation of the material developed in the project that is accessible through a GitHub repository.

Dr. Finochietto exposed the teaching methodologies implemented in different courses

DESARROLLO DE MATERIAL DIDÁCTICO PARA IOT

Elaboración de **material didáctico** para cursos Diseño de **actividades prácticas** y experimentales Construcción de **laboratorios** con equipamiento IoT Desarrollo de **aplicaciones** / librerías software Uso del aprendizaje basado en **proyectos**/problemas Internacionalización del material a través del **inglés**

> 21 proyectos de material didáctico 15 laboratorios con IoT 5 universidades (3 ARG + 2 URU) Uso de **web de repositorios** colaborativos

• Courses and laboratories at UNC

PROGRAMACIÓN CON IOT

Curso de +80 horas de clase Programación básica en Python Primer año de carreras de ingeniería Organizado en 5 unidades didácticas

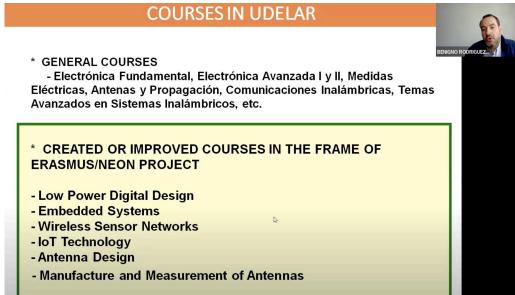
Nodo IoT: entradas (sensores) y salidas (actuadores) Aprendizaje basado en un proyecto incremental: monitor ambiental del aula de clase

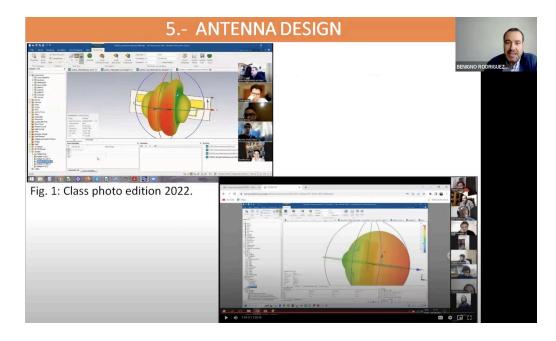
https://github.com/neon-iot/iotprogramming

Laboratorio de SDR con acceso remoto



Courses at UdeLaR





• Courses and laboratories

New and Improved Courses

• IoT for Agribusiness

- New course developed
- Two different deliveries, 2022 and 2023

Fundamentals of Communication

- Already existing course improved
- New lab work included
- Two different deliveries, 2022 and 2023

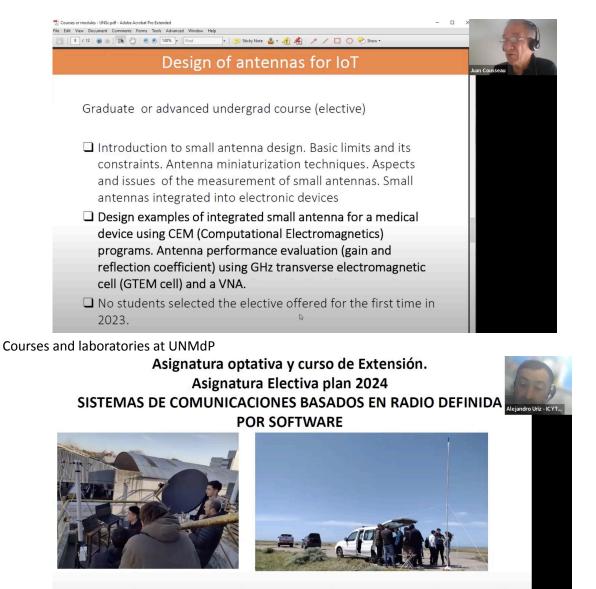
• Design of IoT and Embedded System

- Existing course of Embedded System with new IoT material
- New hardware and new labs implemented
- One delivery, 2023



• Courses and laboratories at UNS

2] Course or module - UKE gelf - Adole Acoluit IP Estimatel Fel: Edit: View: Decourset: Comments' Formin Task: Advanced Window: Help [2] 2 / 2 2 2 2 1 The 20 2 100 100 100 100 100 100 100 100 10	×
Courses (or modules)	Juan Couseau
Electronic Engineering courses	
Fundamentals of Communications Systems	
Introduction to Digital Communications	
Radiofrequency circuits design	
Radiolocation and Radars	
Design of antennas for IoT	
PhD. And MSc courses	
Cellular IoT Technologies	
Wireless communication systems	



 - 4 estudiantes de grado cursaron la asignatura durante el primer cohorte. (75% aprobó, 25% abandonó). Consultas a:

Dr. Ing. Alejandro José Uriz (<u>ajuriz@fi.mdp.edu.ar</u>) Ing. Juan Alberto Etcheverry (<u>jaetcheverry@fi.mdp.edu.ar</u>)

🔛 🛛 Curso Hands On IoT

Curso introductorio sobre Internet de las Cosas (IoT) orientado a estudiantes de ingeniería y público general utilizando metodologías de aprendizaje basadas en proyectos

Nuestro principal objetivo es la enseñanza de tecnologías IoT y sus aplicaciones a través de la experimentación

Metodología: presencial o virtual con experiencias de laboratorio remoto

Material: https://github.com/neon-iot/hands-on-iot



ERASMUS+ PROJECT NEON 618942-EPP-1-2020-1-AT-EPPKA2-CBHE-JP

• New practices in exponential organizations presented by Gimena Caro from Incutex



Webinar Analytics

The invitations to the webinar, shown in Annex 4, were sent by email. There were 15 participants at the event.

3. Conclusions

The three webinars facilitated the comprehensive dissemination of the project, effectively engaging diverse sectors including academia, industry, public entities, and independent professionals. Moreover, the events served as a platform for enhancing coordination among network members.

6. References

[1] NEON project proposal, 2020.

7. Annexes:

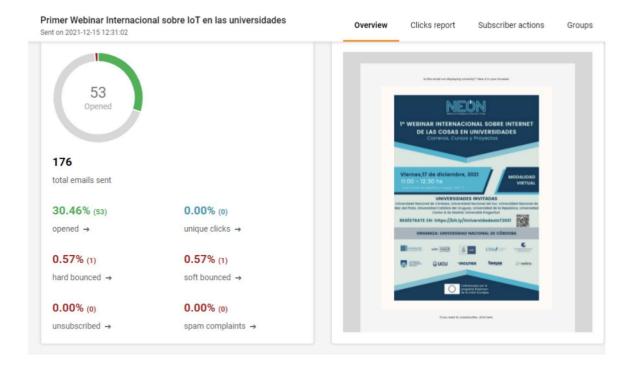
7.1. Annex 1: First Webinar Flyer

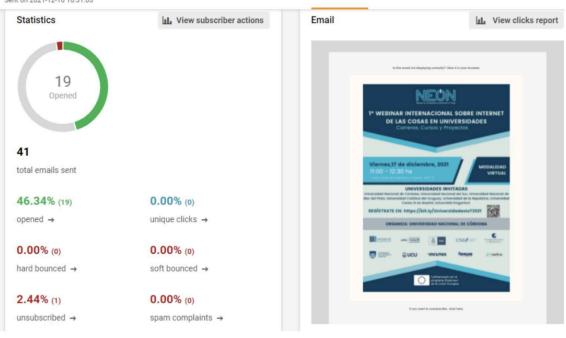




7.2. Annex 2: Analysis of the effectiveness of the email distributed invitation in the First Webinar

Find	l campaign by name		Sort by	Edited at (r	newest to oldest)	•
	Auto resend of Primer Webinar Internacional sobre IoT en las universidades SENT 2021-12-17 05:11:03	25 delivered	20.00% opened	0.00% clicks	L View report	•
7	Primer Webinar Internacional sobre IoT en las universidades SENT 2021-12-16 16:31:03	41 delivered	46.34% opened	0.00% clicks	L View report	•
	Auto resend of Primer Webinar Internacional sobre IoT en las universidades SENT 2021-12-16 01:11:02	129 delivered	26.36% opened	0.00% clicks	Uiew report	•
	Primer Webinar Internacional sobre IoT en las universidades	176 delivered	30.11% opened	0.00% clicks	L View report	•





Overview

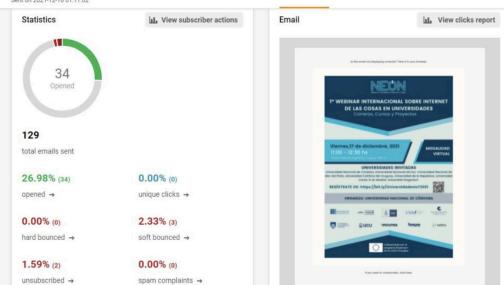
Clicks report

Subscriber actions

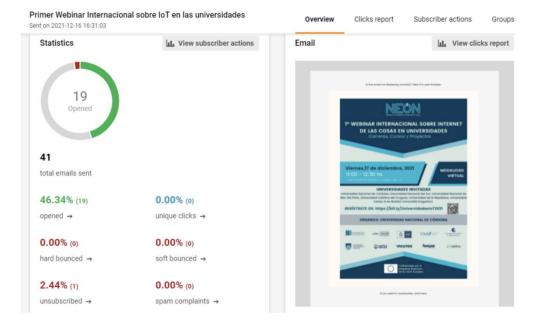
Groups

Groups

Auto resend of Primer Webinar Internacional sobre IoT en las universi... Overview Clicks report Subscriber actions



Primer Webinar Internacional sobre IoT en las universidades Sent on 2021-12-16 16:31:03 21



7.3. Annex 3: Zoom results of the First Webinar



7.4. Annex 4: Second Webinar flyer



7.5. Annex 5: Third Webinar flyer

