



## Learning Advanced Industrial Technologies 4.0

YOU ARE CORDIALLY INVITED TO ATTEND A TRAINING WORKSHOP

**Friday November 3rd**

Arbroath Isla Building Seminar Room 5



### The Project

Staff from D&A College Engineering section have undergone training in Advanced Industrial Technologies as part of an EU Erasmus supported project linking partners from Spain, Italy, Netherlands, Lithuania and the UK together to create a one day course for local business to improve their operations, via a technology audit on the company's readiness to implement changes in areas including automation, CNC, robotics, customisation, energy and materials efficiencies, and 'big data'.

For D&A this project shall develop the technological skills and knowledge of staff who are involved in STEM, Business and Digital to meet the future demands of companies and could influence the future curriculum for students and trainees.

### The Partners

Hetel - Durango, ES

Tekniker - Durango, ES

RoC - Amsterdam, NL

APRO - Torino, IT

SRC - Kaunas, LT

D&A - Dundee, UK

### RSVP

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## Agenda

Topic	Comments
Introduction	Advanced Industrial Technologies refers to the 4 <sup>th</sup> Industrial Revolution where Information and Communications Technologies shape Factories of the Future.
IoT & Data Analytics	Collation and exchanging of data with connected devices (IoT); extracting useful information from Big Data using analytics such as data mining and machine learning.
Robotics	Introduction to Flexible and Collaborative robotics.
Additive Manufacturing (3D Printing)	Creation of physical objects directly from computer generated 3D models. 3D Printing processes and latest trends. There will be demonstration videos and 3D print samples.
Sensoring	Introduction to sensors for maintenance; optimising the maintenance activity with oil and vibration sensors.
Business Model	Impact of <b>Industry 4.0</b> on business models; relevance of Service approach rather than traditional product approach.

## Learning Outcomes

Those attending the workshop will:

- Have an improved overall view on **Industry 4.0**
- Improved awareness of **Industry 4.0** technologies
- Know the applications of these technologies
- Understand how these new technologies impact on business

## Technical Audit

The stage after this workshop will be that staff will develop an audit tool that can be used to map where a company is regarding its progress towards 'factory of the future' status and identify the areas in which staff will require training in.