



**15TH INTERNATIONAL CONFERENCE OF
EDUCATION,
RESEARCH AND
INNOVATION**

The text 'CONFERENCE PROCEEDINGS' is written in a large, bold, white, sans-serif font with a black outline. It is centered over a photograph of a modern building's glass and steel facade, viewed from a low angle looking up. The sky is blue, and some green foliage is visible on the right side.

**CONFERENCE
PROCEEDINGS**

7-9 NOVEMBER 2022
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Published by
IATED Academy
iated.org

ICERI2022 Proceedings
15th International Conference of Education, Research and Innovation
November 7th-9th, 2022
Seville, Spain

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DOI: 10.21125/iceri.2022
ISBN: 978-84-09-45476-1
ISSN: 2340-1095

Book cover designed by J.L. Bernat

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These proceedings are published by IATED Academy. The registered company address is: Plaza Legión Española 11, 46010 Valencia, Spain.

Bibliographic Information

Book Title 15th International Conference of Education, Research and Innovation	Book Series ICERI Proceedings	Editors Luis Gómez Chova Agustín López Martínez Joanna Lees
Publication Year 2022	Publisher IATED Academy	Publisher Address Valencia, Spain
Book ISBN 978-84-09-45476-1	Series ISSN 2340-1095	DOI 10.21125/iceri.2022
Conference Name ICERI2022	Dates November 7th-9th, 2022	Location Seville, Spain
Copyright Information This work is subject to copyright. All rights reserved.	Topics Education Educational Research Educational Technology	

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Preface

The ICERI2022 Conference Proceedings contain selected and revised papers from the 15th International Conference of Education, Research and Innovation.

ICERI2022 was held in Seville, Spain, from the 7th to the 9th of November 2022. ICERI is an annual event in which lecturers and researchers from 79 different countries gather to share valuable research and information about education, pedagogical technologies, and educational innovations.

Keynote speeches, networking activities, plenary sessions, parallel thematic sessions and workshops were, among some of the events on offer, delivered by world-leading educational experts at the conference, which provided participants the opportunity of global networking. The keynote speeches are available at IATED Talks (iated.org/talks/).

The scope of ICERI covered the following topics: Digital & Distance Learning, Digital Transformation of Education, Innovative Educational Technologies, Active and Student-Centered Learning, Assessment, Mentoring & Student Support, Educational Stages and Life-Long Learning, Quality & Impact of Education, Teacher Training and Educational Management, STEM Education, Discipline-Oriented Sessions, Language Learning and Teaching, Inclusion and Multiculturality.

The ICERI2022 Proceedings include the accepted contributions presented at the ICERI2022 Conference. The ICERI2022 International Program Committee is composed of lecturers and researchers from all around the globe. A blind peer review process was followed in order to guarantee the quality of the final publication and during this process, the following points were evaluated: information content, relevance to the educational field, general structure, clarity of contents, originality, and relation to the conference topics and disciplines. The publication is solely in English.

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Finally, we wish to extend our most sincere thanks to all members and delegates who have contributed to these ICERI2022 Proceedings. We also wish to express our gratitude to all participants and attendees for their engagement, dedication and passion for education.

Luis Gómez Chova
Agustín López Martínez
Joanna Lees

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ICERI2022 Keynote Speakers

Keynote Speakers

Tracey Tokuhama-Espinosa – *Harvard University Extension School, United States*

Manu Kapur – *ETH Zurich, Switzerland*

Tracey Tokuhama-Espinosa – Harvard University Extension School (United States)



Keynote speech: What Every University Professor Should Know About Meaning Making

Over the years we have heard a lot about the important role of social-emotional learning within school settings. We have also learned something about how the brain learns in regular classrooms. What is less explored is how people make meaning out of their worlds by combining knowledge of how others feel and knowledge of how others think to construct reality. New neuroimaging technology now gives us a glimpse as to how people influence each other's learning through a dynamic exchange of cognition and emotion. Meaning Making is a term used to describe how humans give context to their

learning. In this keynote we will explain how humans learn from this perspective, and why and how higher education must shift to remain relevant in modern times.

Biography:

Tracey Tokuhama-Espinosa, Ph.D. is from Berkeley, California, is an alumna of the Harvard Graduate School of Education, and currently teaches a course at the Harvard University Extension School entitled The Neuroscience of Learning: An Introduction to Mind, Brain, Health, and Education Science. She is currently an educational researcher and serves as an Associate Editor of Nature Partner Journal Science of Learning and co-founder of Connections: The Learning Sciences Platform.

Tracey researches indicators to measure educational quality; learning in the digital age; transdisciplinary thinking; bilingualism and multilingualism; and the general improvement of teacher practices. Her most recent books are the Bringing the Neuroscience of Learning to Online Teaching: An Educator's Handbook (2021); Neuromyths: Debunking False Ideas About the Brain (2019); and The Five Pillars of the Mind: Redesigning Education to Fit the Brain (2019). She has authored articles for UNESCO and was a member of the Organisation for Economic Co-Operation and Development (OECD) expert panel to redefine teachers' new pedagogical knowledge in modern times.

Tracey's current focus is on understanding What Kids Want to Know About Their Own Brains, a book coming out with Columbia University's Teachers College Press next year. She is also writing a book called ThinkWrite: The Neuroscience of Writing, which explains why writing is the highest form of thinking. Finally, she is co-editing a new Handbook on Brain, Neuroscience and Education, which is a collection of work looking at the future of educational practice.

Tracey has lived and worked professionally in Tokyo, Geneva, Lima, and Boston, and is currently in New York and works with teachers, schools, governments, and NGOs in 40 different countries.

Manu Kapur – ETH Zurich (Switzerland)***Keynote speech: Productive Failure***

If learning from failure is intuitively compelling, how can we intentionally design for it, and bootstrap it for deep learning? In my talk, I will describe my research on Productive Failure, and its implications for how we design powerful learning environments, innovation and creativity.

Biography:

Manu holds the Professorship for Learning Sciences and Higher Education at ETH Zurich, Switzerland, and directs The Future Learning Initiative (FLI) at ETH Zurich. An ETH+ funded initiative, the FLI brings together more than 20 professors from 10 departments at ETH to advance research on the science of teaching and learning in higher education contexts, and translate it into the practice of teaching and learning at ETH Zurich.

Prior to this, Manu was a Professor of Psychological Studies at the Education University of Hong Kong. Manu also worked at the National Institute of Education (NIE/NTU) of Singapore as the Head of the Curriculum, Teaching and Learning Department, as well as the Head of the Learning Sciences Lab (LSL).

A mechanical engineer by bachelors training, Manu has always been passionate about mathematics. He taught college mathematics for four years, during which he was also the deputy leader for Singapore's team to the 43rd International Mathematical Olympiad in Glasgow. It was then that his intrigue for mathematical cognition took root, which led him to pursue a doctoral degree in the science of learning (specialization in instructional technology) at Columbia University in New York. Manu holds a double Masters: a Master of Science in Applied Statistics from Columbia University in New York, and a Master of Education from the NIE, Singapore.

As a learning scientist, Manu makes a commitment not only to advancing understanding of human learning, but doing so in ways that make an impact in the actual ecologies of learning. Drawing on his engineering mindset for design, Manu conceptualized and developed the theory of Productive Failure to design for and bootstrap failure for learning mathematics better. He has done extensive work in real-field ecologies of STEM classrooms to transform teaching and learning using his theory of productive failure across a range of schools and universities in around the world.

His research on Productive Failure has been taken up by the Singapore's Ministry of Education for wide-scale re-design and implementation of its pre-university mathematics (statistics) curriculum and pedagogy.

Conference Tracks & Sessions

The ICERI2022 conference program is available online at <https://iased.org/iceri2022>

ORAL SESSIONS MONDAY

Virtual & Augmented Reality
Tutoring & Coaching
Entrepreneurship Education (1)
Robotics in Education
Flipped Learning
Best Practices in Maths Education
Students and Teachers Wellbeing
Exchange & Mobility Programmes
Technology Enhanced Learning
Rethinking Assessment in COVID-19 Times
University-Industry Collaboration (1)
Responsible Research and Innovation in STEM
Gender Issues in Education
Trends in Maths Education
Special Education (1)
New Technologies in Language Learning
Design Thinking
e-Assessment
Employability Trends and Challenges
Architecture Education Experiences
Pedagogical Innovations
Computer Science and Programming in Higher Education
Inclusion of Learners with Special Educational Needs
Teaching and Learning Foreign Languages
21st Century skills
Assessment & Feedback
Entrepreneurship Education (2)
Engineering Education
Project and Problem Based Learning
Coding at Schools
Special Education (2)
Second Language Learning & Bilingual Education

POSTER SESSIONS MONDAY

Pedagogical Experiences in Teaching and Learning
Emerging Technologies and Distance Learning

ORAL SESSIONS TUESDAY

Digital Transformation of Education
From Face-to-Face to Remote Learning
Universal Design for Learning & Learning Space Design
Media & Information Literacy
Blended and Hybrid/Hyflex Education
Professional Development of STEM Teachers
Educational Leadership and Management
Students Wellbeing during and after COVID-19
Online Teaching and Learning
Lessons learned from the COVID-19 pandemic

Student Support
 Diversity Issues & Inclusive Education
 Active & Experiential Learning
 Professional Development of Teachers (1)
 International Experiences
 Remote and Virtual Laboratories
 e-Learning
 Quality Assurance & Learning Analytics
 Inclusion & Multiculturality
 Student Engagement and Motivation
 Service Learning & Community Engagement
 ICT Skills among Teachers
 How to better match the language proficiency needs? The Kielibuusti project
 Cooperative & Problem Based Learning in Computer Science
 Research on Educational Technologies
 University-Industry Collaboration (2)
 Educational Software
 Digital Literacy
 Gamification & Game-based Learning
 Pre-Service Teacher Education
 How to Build an Entrepreneurship Education System across Educational Levels?
 STEM Experiences
 Social Media in Education
 Workplace & Vocational Training
 Curriculum Design Experiences
 Engagement and Motivation during COVID-19 Pandemic
 Sustainable Development Goals in Education
 Professional Development of Teachers (2)
 Educational Management
 Health Sciences Education

POSTER SESSIONS TUESDAY

Innovations and Quality in Education
 New Trends in Education and Research

VIRTUAL SESSIONS

DIGITAL TRANSFORMATION OF EDUCATION

Data Science & AI in Education
 Learning Analytics & Educational Data Mining
 Digital Technologies and Resources for Learning under Lockdown
 Digital Transformation
 21st Century Skills
 Educational Programming & Robotics

DIGITAL & DISTANCE LEARNING

Distance Education in COVID-19 Times
 MOOCs & Open Educational Resources
 Blended & Mobile Learning
 e-Learning Experiences
 Learning Management Systems & Virtual Learning Environments
 Post-Pandemic Scenarios in Education

INNOVATIVE EDUCATIONAL TECHNOLOGIES

AI, Chatbots & Robots
 Virtual & Augmented Reality
 Social Media in Education
 Technology Enhanced Learning

TEACHER TRAINING & ED. MANAGEMENT

ICT & Digital Skills
Professional Development of Teachers
Educational Management

ACTIVE & STUDENT-CENTERED LEARNING

Gamification & Game-based Learning
Active & Experiential Learning
Problem & Project-Based Learning
Developing Soft and Transversal Skills
Pedagogical Innovations

ASSESSMENT, MENTORING & STUDENT SUPPORT

Assessment & Evaluation
Rethinking Assessment in COVID-19 Times
Mentoring & Tutoring
Student Support & Motivation
Student Engagement & Wellbeing in COVID-19 Times

EDUCATIONAL STAGES & LIFE-LONG LEARNING

From Pre-school to Secondary Education
Vocational Training
Transition to the Job Market
Developing Entrepreneurship in Education
Life-Long & Workplace Learning
Libraries and Museums as Learning Spaces

QUALITY & IMPACT OF EDUCATION

Quality in Education
Experiences and Challenges in Curriculum Design
Sustainability & Environmental Awareness
Social Impact of Education
University-Industry Collaboration
Education and Research

MULTICULTURALITY & INCLUSION

Multicultural Education
Diversity Issues
Special Educational Needs
Inclusive Education

STEM EDUCATION

Mathematics & Statistics
Engineering Education
STEM Experiences
Computer Science Education

LANGUAGE LEARNING AND TEACHING

Foreign Languages
New Technologies in Language Learning
Language Learning & Translation Studies

DISCIPLINE-ORIENTED SESSIONS

Architecture & Interior Design
Health Sciences Education
Business and Marketing Education
Military Education

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CREATING INNOVATIVE METHODOLOGIES FOR VET STUDENTS TO CARRY OUT VIRTUAL INTERNSHIPS IN TECHNOLOGY COMPANIES

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Abstract

The aim of this work is to present the contents, objectives and methodology of the "METHODOLOGICAL GUIDE: VIRTUAL INTERNSHIPS IN TECHNOLOGY COMPANIES", developed within the framework of the Erasmus Plus Program Project "VIRTUAL INTERNSHIPS IN TECH CENTERS: TRAINING VET STUDENTS WITH OBSTACLES INTO A INNOVATIVE DIGITAL METHODS OF REMOTE WORKING AND ELEARNING CREATED FROM COVID-19". This methodological guide collects the work developed by an interdisciplinary and international network of technology companies, VET educational centers and experts in the development of innovative learning methodologies. This working group has focused on the training of VET teachers and technicians of technology companies from different countries of the European Union. The objective of this guide is to provide an innovative training techniques based on critical thinking and scrum methodology. This methodology has been adapted to the requirements of teleworking and the economic, social and cultural obstacles that some VET students can meet. Both technology companies and VET educational centres will implement this methodology in virtual work placements for such students. Thus, this guide will offer teachers and company technicians all the protocols, information, documentation, control instruments and adaptation methods necessary to host virtual work internships, allowing VET students with obstacles to be provided with the opportunity to carry out internships that promote their inclusion, learning on new technologies and their employability, without large costs or investments in equipment. This guide is prepared for internships in technology companies and focus on 5 specific jobs (3D design and rendering, 3D machine construction, programming of digital environments, design of electronic circuits and laboratory technician). However, the methods proposed can be used in many different labor sectors, being an effective tool adapted to the post-COVID-19 reality and providing an effective mechanism to overcome the serious problems that the students find to get opportunities to carry out internships during their studies or in the initial postgraduate stages.

Keywords: VET, virtual internships, technology companies, critical thinking.

1 INTRODUCTION

This work arises from the difficulties encountered by many VET students to carry out their curricular internships in companies during the COVID-19 pandemic. However, the problem posed is more general. Many students with obstacles may also have problems to travel to stay in a company lasting several months, especially if that company is located in a European country other than their own. On the other hand, the pandemic has highlighted the need to train professionals in teleworking, which requires specific techniques and skills, in addition to those necessary for on-site work. The methodology that we present has been developed within the framework of the Erasmus Plus project "VIRTUAL INTERNSHIPS IN TECH CENTERS: training VET students with obstacles into innovative digital methods of remote working and e-learning created from COVID-19". It aims at developing in the students

skills of teamwork, critical thinking skills, creativity, specific teleworking techniques and others more specific to the profession. All this is based on carrying out a project in a team led by a tutor from the company. We think that this project will contribute significantly to the employability and inclusion of VET students, especially those with obstacles, in companies in the technology sector, achieving their inclusion and obtaining a competitive curriculum that facilitates their access to the labor market.

Implementing effective virtual internships, especially if they are in the technology sector, is no easy task. It requires adaptations in working methods, the use of specific tools, the establishment of continuous monitoring measures and appropriate methods that promote the capacity for initiative and responsibility of both students and tutors of the company and VET centers.

For this reason, we have developed the **METHODOLOGICAL GUIDE: THE VIRTUAL INTERNSHIPS IN TECH CENTERS**. This guide has the aim of providing all the information, protocols, documentation and control instruments required by technology companies and VET centers to implement innovative and effective virtual internships (both for the student and for the company itself) without large investments in equipment or temporary costs that small companies and VET centers cannot assume.

Professionals from technology companies and VET centers have taken part in the design of these internships, inviting professors and researchers from technology universities to the working groups.

2 METHODOLOGY

We propose an active methodology, in which the student must progress in the skills that we think they should develop while carrying out a technological project in a group. The internships are designed for working groups of 3 to 6 students. Since they are virtual internships, it is desirable to take advantage of teleworking so that these groups are formed by students from different European countries. The group will be led by a tutor from the company and will be assisted by teachers from educational centers and company professionals to whom the students can turn to for specific questions. It is necessary to be realistic about the time that a company tutor can devote to the attention of these internships; it is important to work thoroughly on the techniques of autonomous work of the group and on the communication of the students with their tutor so that the project progresses effectively. One of the dangers for a training program such as the one we are proposing here is both the students' inattention, which leads to a lot of downtime in the progress of their project, and the strain of the tutors, which makes it impossible for the company to continue with the project. The techniques to be applied in this sense are not obvious, in this project we have developed guides for teachers of educational centers or for company tutors and courses for students in which we try to specify certain recommendations that we think can contribute to make the training process effective.

Another essential aspect of the success of the training process is the definition of the project to be carried out by the students in the company. In the same way as in an on-site internship, the work done by the students in the company must be of interest to the company, it must not be something marginal. It seems natural that the definition of the project should come from the company. However, for the virtual internship to be truly formative for the students, a thorough reflection on the pedagogical aspects is necessary. The business objectives must be complemented by objectives of skills training for students, such as critical thinking, group work skills and other skills mentioned above. Rather, it should be said that the training of students in these skills should result in greater achievements in line with the objectives set by the company. In this sense, it is very important that the definition of the project to be proposed as virtual internships involves interdisciplinary groups in which the company collaborates with teachers from training centers. This is what has been done in this project when defining a series of virtual internships by the companies participating in the partnership.

A third aspect we would like to emphasize is the value of a curricular internship in the student's transition from the educational center to the work environment. The curricular internship is usually the professional's first work experience. There is a danger that this aspect of the internship in a company may be distorted if the internship is done virtually. It is important that the definition of the projects and the work methods proposed to the students categorically emphasize the fact that from the beginning of the internship they are considered as employees of the company, subject to the same obligations and rights than any on-site worker.

As for the methodological bases of this work, we highlight two points:

✦ CRITICALTHINKING4VET Methodology

The CRITICALTHINKING4VET methodology makes use of critical thinking as a basis for decision making and evaluation of one's own actions. We consider this methodology to be fundamental for carrying out virtual work, as it fosters the capacity for initiative and autonomous management [1-3].

R Paul and L Elder defined critical thinking as "... the process of analyzing and assessing thinking with a view to improving it." [1]. Reflecting on one's own thinking is expected to lead to better decision making, to improve information search and assessing, solving problems or communicate effectively. The very conviction of the richness of critical thinking and its contribution to one's own personal development makes one feel confident that training in certain critical thinking skills can act as a trigger for further lifelong development.

Critical thinking implies flexibility, willingness to recognize mistakes and to change one's mind, to accept the existence of other alternatives than those usually accepted.

The DIGITAL LABORATORY NOTEBOOK, one of the key aspects of this methodology, aims at help the students to develop all these skills. This is a daily task and follow-up document that the student creates and contains a structure that addresses specific aspects for their training in critical thinking raising significant questions. In filling this notebook, students will begin each workday by making entries that contain elements that force critical reflection on the work being done and on the extent to which the student has understood the task assigned to them and their role in the project as a whole.

✦ SCRUM Methodology

SCRUM is a dynamic work methodology that allows coordinating and structuring the management of collaborative work with the objective of achieving the best possible result of a project. Although this methodology is mainly used for work teams focused on software development, it can be applied to other areas [4].

It is a method that will provide fundamental concepts for teleworking such as the transformation of project requirements into short and fixed time blocks, the daily synchronization of work and the generation of adaptations, the time scheduling and the definition of authority and delegation of responsibilities. This methodology is based on continuous and mutual learning, based on the assumption that team members do not have all the knowledge from the beginning, but acquire skills and aptitudes as the project evolves.

3 RESULTS

In the previous section we wanted to reflect on certain methodological aspects of our virtual internship program. One of the conclusions of our working groups has been that the success of the program depends to a large extent on the way in which we transmit to the students the definition of the project to be carried out, the training objectives, the organization and group work techniques and the responsibilities they assume when starting the internship. It is difficult to explain in generic terms the conclusions we have reached in the elaboration of these internships, it seems to us more useful to include in the following pages a specific example. Due to the space available in this article, we have to present it as a summary but the interested reader can find detailed versions of this and other virtual internships in reference [5]. The one presented here is a virtual internship prepared to be carried out by four students in a 3D printing technology company.

3.1 Example of virtual internship: Bioreactor. Design and construction.

3.1.1 Introduction and purpose of the practice.

There are many applications where continuous and reproducible agitation of tubes containing solutions or suspensions is required to keep them homogeneous.

The operation of these systems is actually simple. They consist of a platform on which the tubes are fixed, each closed with its own cap. This platform can rotate around an axis that is horizontal in some cases and vertical in others. There are shakers that rotate the tubes completely around the platform, while other designs allow them to rotate through an angle, in a tilting fashion, that can be programmed, and even allow the tubes to be subjected to additional vibration at certain points in their travel.

These devices are often found in hospitals, for example, in hematology departments for testing blood components. They are also seen in chemical laboratories because many reactions take place under agitation, they are used to maintain homogeneity in the mixture of reagents. In cell culture laboratories they are used to grow cells in suspension in a liquid culture medium. They are also common in materials synthesis and characterization laboratories, for example, in solvent extraction systems or the homogenization of paints and suspensions.

The requirements are not very demanding but they must be robust because they are going to work continuously for hours or days. Depending on the application they will need to be located in environments at temperatures somewhat above or somewhat below room temperature, for example 37°C in cell culture or 4°C in many chemical reactions involving proteins.

3.1.2 Objective

The objective of the work is the design and construction of an Eppendorf tubes shaker for cell culture. It must be produced mostly by additive manufacturing and its drive will be done with an Arduino-controlled stepper motor. The programming of the movement must be done on a tablet or laptop and transfer the motor control program to the equipment via Bluetooth or with a USB stick. It will allow equal agitation of at least 30 tubes simultaneously. As a novel feature, the shaker is intended to allow tubes to be placed without a cap and a single cap closes all tubes at once. This will save a lot of operating time in the specific application for which it is intended.

3.1.3 Working methods

3.1.3.1 Computer tools

The design and prototyping work will be carried out using free software. It is important that all the members of the group master the handling of the three essential tools that are going to be used at work. Essentially the following software packages will be needed:

- 1 *Computer assisted 3D design software.* FreeCAD is the tool that will be used for the three-dimensional design of all the parts. Each part is defined in a file in STL format that collects the shape of its external surface. We will allow some time at the beginning of the development of the work plan for learning how to use this software, although most of the training will come during the actual making of the pieces.
- 2 *Printer control software.* Slic3r software prepares the 3D printer control GCODE file from the STL file that defines its shape. To do this, it converts the part to a layer-by-layer stack with the layer thickness the 3D printer will use. For each of the layers, the GCODE file will contain the point-to-point information of the movement that the print head must perform. This software must also be known by all members of the group. Its handling will be learned once the 3D design of the pieces to be built is advanced.
- 3 *Arduino UNO.* The operation and control of the Arduino will be studied in internet tutorials
Apart from these computer design and prototyping tools, tools for the analysis and presentation of results are required.
- 4 *Office Software: Word processing, slide presentations: We will use Open Office.* It is likely that students are familiar with this software or other similar ones, especially in the case of word processing.

3.1.3.2 Activity log sheets.

The design and construction of the equipment requires carrying out a set of tasks that are very different from each other: search for information, learn the use of different computer packages, thoroughly understand the operation and control of stepper motors, make oral and written presentations... Some of these tasks will be shared between the two members of the group and others will be carried out by both. In this way of working, it is absolutely advisable to establish an individual work plan for each day at the beginning of the day and end it with a review of the activities carried out. Attached below is a model sheet that may be useful in this regard, in which we include an example of an activity. No more than 10 minutes should be spent at the beginning and end of the day to fill in these forms.

Dte	Worker	
Planned activities	Target. Result to be achieved.	End of day comment.
Group meeting	Today we have to talk about...	
Decision on the anchoring of the motor and the electronic circuits	3D construction draft plans	
Meeting with colleague xxxxxx so that he can explain to me how the curved surfaces of the casing are built in the 3D design program	I think he knows how to do it and it will save me work if he explains it to me	

These files must be uploaded daily to the individual folder of the worker in the shared space.

3.1.3.3 Work plan

In the work plan presented below, an attempt has been made to identify in detail all the tasks that need to be carried out to achieve the project objective. We list them consecutively, with a brief description, the execution time period and the tangible results that must be obtained from them. In any case, the breakdown of tasks may not be complete and during the development of the project new ones are detected or some of the specified ones are seen as unnecessary. The group can make the necessary readjustments. There are tasks that must be carried out by all the members of the group, others for which only one of the components can be responsible.

The internship is organized in three phases or work packages.

PT1. Understanding of the problem. Preliminary solution.

Task 1.1. Understanding of the problem.

Group meeting with the tutor. Problem Statement. Objective of the project. Review of work organization strategies.

Result to be obtained: The two components of the group must have a clear idea of the characteristics required of the product to be obtained.

Task 1.2. Installation of computer tools on individual computers.

Each member of the team can be responsible for finding a tutorial or written instructions on the Internet for the installation and configuration of one of the necessary software packages and passing that information to the others. Each will install the tools on their computer.

Result to be obtained: All the components of the group must have all the necessary software installed on their computers and configured.

Task 1.3. State of the art. Tube agitators available on the market.

Search for information on the agitators that are currently or have been on the market. Pay special attention to the solutions that have been adopted to fix the tubes, the movement to which they are subjected and the programming, the dimensions, the materials used, the aesthetics of the casing...

Result to obtain: A presentation with slides that gathers the results of the search, with a brief description of its main characteristics. You should prepare it to present it to your tutor in approximately 10 minutes. The documents with the downloaded information will be uploaded to the shared space in a specific folder within the group folder.

Task 1.4. State of the art. Scheme of solutions adopted in commercial equipments.

It is about building a scheme of ideas that includes the options found for each of the elements of the equipment on whose design a decision must be made. They have been mentioned in the previous task.

Result to obtain: A presentation with slides that collects the results of the search. You must prepare to present it to the tutor in approximately 10 minutes. The documents with the downloaded information will be uploaded to the shared space in a specific folder within the group folder.

Task 1.5. State of the art. Fused filament 3D printers.

Internet search of the different materials available as printing filament, their mechanical characteristics, available colors... Printing parameters, resolution, layer height... What is a GCODE file for printer control?

Result to obtain: A presentation with slides that collects the results of the search. You should prepare to present it to the tutor in approximately 10 minutes. The documents with the downloaded information will be uploaded to the shared space in a specific folder within the group folder.

Task 1.6. State of the art. Stepper motors. Control via Arduino.

Download a tutorial on the operation and connection of the motorization components. Decisions will have to be made about the motor model, the power it can develop, the shaft rotation speed range. You can look up examples of using these engines in other types of devices to get a rough idea of what to expect from them.

Thoroughly understand the operation of the motor, how an Arduino controls that movement, how to edit a file that defines all the movements in a complete cycle of operation of the equipment, for example, the back and forth movement at a certain speed for three days. Understand how the edited file is uploaded to the Arduino on a computer via USB or Bluetooth and start the operation.

Search for possible suppliers of both the motor and the Arduino, models, prices, delivery times,

Result to obtain:

- A brief presentation of about 10 minutes, with the motors available on the market, their dimensions, power, turning speeds, etc.
- Demonstration circuit in which the motor, simply placed on the table, receives the instructions to make 60° turns to the right and left in a back and forth movement. The documents with the downloaded information will be uploaded to the shared space in a specific folder within the group folder.

Task 1.7. Preliminary design

Decisions must be made about the design of the ensemble and about certain details of its construction. All these decisions have to be based on an in-depth analysis of the state of the art, that is, of what has already been done. The idea is to innovate, but not from scratch but from what is already known. Throughout the work, these initial ideas will probably be modified, but they are a very important work basis for the success of the project.

Result to obtain: Idea of the preliminary design of the complex, reflected in the form of diagrams and freehand drawings. Sizes and shapes of the main parts. Decision on the design of the joining elements. Materials selection.

PT2. Project execution. Design and construction of the prototype.

Task 2.1 Training in the use of the 3D design program.

This task will begin with an initial class given by the tutor of the work, as a form of initiation to the use of the program. It will be in a theoretical-practical session of about two hours in which the members of the group will do the exercises that the tutor will propose on their computers.

From there, the management of the program will be deepened while the design of the different pieces that will make up the equipment is developed. Doing group work will be essential here to resolve any doubts that may arise. What one learns will serve the other. Each one may be designing different pieces, but the design tools are the same for everyone.

Result to obtain: Fluency in handling the 3D design program to generate the STL files of all the pieces

Task 2.2 Design of each of the pieces that make up the set. First approximation.

The three-dimensional representation of each of the pieces will be built separately. The pieces will be distributed among the components of the group. Each of them will give rise to a file in the format of the 3D design application, a file in STL format, a representation in image format, to be included in a slide show, and a representation in a dihedral system.

Result to obtain: Set of pieces designed, reviewed and approved by the group and the tutor.

Task 2.3. Equipment overview

The 3D design software allows you to assemble the pieces, of which you have the individual files, to build an overall image. This is a group task both learning to do it and carrying out the task. The tutor can help by giving a first initiation class to this process or giving instructions at important moments or resolving doubts.

Result to obtain: 3D files of the assembly of the equipment. Demonstration that all the pieces fit together correctly before going on to produce the prototypes.

Task 2.4. Generation of printing files.

Training in the use of the CURA program to generate the GCODE files for each of the pieces. Once the GCODE files are prepared, they will be thoroughly reviewed in group meetings. These files are going to be printed on Ikasia Technologies SL machines, using production time and dedication time of its staff. It is very important to be as sure as possible that there are no errors in the files that lead to having to repeat the work.

A document will be prepared, in spreadsheet format, slide presentation or text document, in which each piece to be printed is shown as it should be after printing (image taken from CURA), the printing material, and the main print data. These data are collected in the GCODE file but it is about making it easier for the 3D printing machine operator to see quickly what is going to be printed and the decisions that have been made regarding the printing parameters, so that with his experience, he can detect an eventual error before start printing.

Result to obtain: GCODE files that allow the printing of all the parts.

Task 2.5 Acquisition of commercial parts.

In addition to the motor and its control circuits, some elements will not be produced by 3D printing but will be purchased from commercial companies, for example, shafts, transmission elements, metal parts in joints, bearings, etc... Orders will be placed in accordance with The tutor.

Result to be obtained: Reception of the parts at the Ikasia Technologies premises.

Task 2.6 Motor control programs.

You have to develop some simple instructions to generate a text file that the Arduino can interpret and execute.

Task 2.7 Manufacture of parts by 3D printing. Assembly.

The precision of the parts and their assembly will be checked as they are produced. At the end of week 9, all the prototype parts should be available and any errors that may have occurred in the design and/or manufacture of the parts should be detected. If there are errors, the pieces will be repeated as necessary.

Result to obtain: Complete check and approval of the result by the group and the tutor.

Task 2.8 Fine tuning. Calibration. Testing performance.

The calibration must verify the angles of rotation, movement speeds, measurement of the rest time if any, etc. On the other hand, it is necessary to verify that in continuous movement unacceptable wear is not produced in any of the pieces produced by additive manufacturing. Usually weak points are bearing housings, screwed parts or parts subjected to friction. It may be necessary to correct the design of some of them. Any part of the originals that contains errors will also be repeated.

Result to obtain: Final set of pieces.

Task 2.9 Drafting of the instructions for use manual.

PT3. Conclusions. Final Presentation.

Task 3.1 Final Presentation.

At the end it is necessary to prepare a written document that describes not only the final result but also the whole of the work carried out.

There will be a team presentation, lasting approximately 30 minutes. It will be a telematic presentation open to the staff of the companies and educational centers involved.

A short video version of this presentation will be prepared for publication as part of the project's outreach program. In any publication related to this work, the students who have participated in it and their tutor and those responsible for the work in the company will appear as co-authors, as well as the person who has designed their objective and work plan.

Result to obtain: Final written report and oral presentation.

3.1.3.4 Deliverables

In this section we list the set of documents and other tangible results that must be delivered to the company throughout the development of the project.

- E1.- Individual work sheets.**
- E2.- Minutes of group meetings and meetings with the tutor. .**
- E3.- Files of each of the pieces.**
- E4.- Files of the overview.**
- E5. Manual.**
- E6. Final report of the project.**
- E7. Equipment prototype.**

3.1.3.5 Schedule.

Task	Week	1	2	3	4	5	6	7	8	9	10	11	12
PT1													
1.1	Understanding of the problem												
1.2	Installation of computer tools												
1.3	Tube agitators available												
1.4	Commercial equipment												
1.5	Fused filament 3D printers												
1.6	Stepper motors. Arduino.												
1.7	Preliminary design												
PT2													
2.1	Training in the use of the 3D design program.												
2.2	Design of each of the pieces												
2.3	Equipment overview												
2.4	Generation of printing files.												
2.5	Acquisition of commercial parts.												
2.6	Motor control programs.												
2.7	Manufacture of parts by 3D printing. Assembly.												
2.8	Fine tuning												
2.9	Drafting of the instructions for use manual.												
PT3													
3.1	Final Presentation.												

4 CONCLUSIONS

In this communication we have presented the main ideas in which the METHODOLOGICAL GUIDE: VIRTUAL INTERNSHIPS IN TECHNOLOGICAL COMPANIES is based. It is an active methodology that aims to train students in critical thinking skills, creativity, autonomous work and group work through the realization of a project of design and construction of an equipment of interest to the technological company. To illustrate the definition of the project we present an example of a specific proposal to carry out virtual internships in a 3D printing technology company.

ACKNOWLEDGEMENTS

This work has been funded by the Erasmus + program within the 2020-1-ES01-KA226-VET-094951 project, Spanish Service for the Internationalization of Education (SEPIE). We would like to thank the support of the Erasmus Plus Program, which has made it possible to bring together specialists of seven European entities. Technology companies, VET education centers and experts in the development of innovative learning methodologies from five European Union countries (Spain, France, Portugal, Italy and Greece) have taken part in this project. We expect that formative materials developed in the project will provide VET education centers and technology companies, as well as their employees and students, with useful tools to carry out virtual internships in the technology sector.

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