



IDENTIFYING DATA

Horizontal competencies and talent management [Abrir en el Traductor de Google](#) [Enviar comentarios](#) [Resultados web](#) [Traductor de Google](#) <https://translate.google.es/?hl=es> [El servicio gratuito de Google traduce instantáneamente palabras, frases y páginas web](#)

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|---------------------|--|----------|------|------------|
| Subject | Horizontal competencies and talent management Abrir en el Traductor de Google Enviar comentarios Resultados web Traductor de Google https://translate.google.es/?hl=es El servicio gratuito de Google traduce instantáneamente palabras, frases y páginas web | | | |
| Code | V04M183V01110 | | | |
| Study programme | M.U. Industry 4.0 | | | |
| Descriptors | ECTS Credits | Choose | Year | Quadmester |
| | 3 | Optional | 1st | 1st |
| Teaching language | Spanish Galician English | | | |
| Department | | | | |
| Coordinator | Peláez Lourido, Gustavo Carlos | | | |
| Lecturers | Formoso Vérez, Daniel Graña Escalante, Roberto Larsson , Olof Christian Peláez Lourido, Gustavo Carlos | | | |
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| Web | http://masterindustria40.webs7.uvigo.es/wordpress/ | | | |
| General description | It is essential for managers in the new 4.0 industry paradigms to acquire the professional skills necessary to lead change and direct the roadmap by understanding the horizontal competencies and managing the talent of their team members | | | |

Skills

| | |
|------|--|
| Code | |
| A1 | Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context |
| A2 | Students should be able to apply their acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study. |
| A3 | Students are able to integrate knowledge and deal with the complexity of making judgements based on information which, being incomplete or limited, includes reflections on the social and ethical responsibilities linked to the application of their knowledge and judgements. |
| A4 | Students should be able to communicate their findings - and the ultimate knowledge and reasons behind them - to specialist and non-specialist audiences in a clear and unambiguous manner |
| B1 | Organization and planning skills |
| B2 | Problem solving. |
| B3 | Descion making |
| B4 | Information management capacity. |
| B5 | Oral and written communication in your own language. |
| B7 | Computer skills related to the field of study. |
| C33 | Identify and develop key skills and abilities in multidisciplinary teams for the processes of implementation and evolution towards industry 4.0 |
| C34 | Develop skills for competency-based management of people in high-performance teams in the context of Design and Manufacturing |
| D1 | Ability to understand the meaning and application of the gender perspective in different areas of knowledge and in professional practice with the aim of achieving a more just and equal society |
| D2 | Incorporate criteria of sustainability and environmental commitment into professional practice. To acquire skills in the equitable, responsible and efficient use of resources |
| D3 | Multidisciplinary teamwork |
| D4 | Initiative and entrepreneurial aptitudes and attitudes. |

Learning outcomes

| Expected results from this subject | Training and Learning Results |
|---|---|
| Identify and develop key skills and abilities in multidisciplinary teams for the processes of implementation and evolution towards industry 4.0 | A1 B1 B2 B4 B7 C33 D1 D2 D3 D4 |
| Develop skills for competency management of people in high performance teams in the context of Design and Manufacturing industry 4.0 | A2 A3 A4 B1 B2 B3 B4 B5 B7 C34 D1 D2 D3 D4 |

Contents

| Topic | |
|---|---|
| Evolution of the industry to the paradigms of the smart factories or 4.0: Roadmap of the digital transformation and how will affect to the human resources. | - Preliminary study of the Digital Transformation. Historical evolution. - Roadmap to the Factories of the Future: review of ideas, approaches and regulations. |
| Professional skills in the Connected Industry: current deficiencies, future perspectives. | - What will the work in the factories of the future be like? - New career perspectives: Skills most in demand during the digitalization process and after the transition. - Communication and Public Speaking - Leadership - Equipment management |
| How to drive the 4.0 paradigm implementation roadmap in the industry: opportunities, risks, preparation for change. | - Leadership skills and team management - Digital transition. Establishment, monitoring and control of the Roadmap. - Management of a Transition Project |
| Skills needed for change, techniques to support change: design & lean thinking, canvas and start-up models, disruptive thinking, NLP | - Entrepreneurship: capabilities for self-employment - Desgn & Lean Thinking - Startup Canvas - Disruptive Thinking - NLP |
| Talent management: What is talent and how can its evolution be interpreted? How is it activated, maintained and used in the industries of the future? | - What is talent and how is it interpreted in the digital transition? - How is talent activated, maintained and used in the Factories of the Future? |
| The values in the factory of the future: Social and human responsibility in the evolution towards industry 4.0. | - The Key Values in the Digital World - Corporate Social Responsibility - Transparency in Business - Sustainability: environmental and social aspects - Just Transition to the new industrial reality |

Planning

| | Class hours | Hours outside the classroom | Total hours |
|--------------------------|-------------|-----------------------------|-------------|
| Case studies | 5 | 7 | 12 |
| Debate | 5 | 7 | 12 |
| Seminars | 5 | 5 | 10 |
| Mentored work | 5 | 19 | 24 |
| Lecturing | 2.5 | 7 | 9.5 |
| Objective questions exam | 0.5 | 2 | 2.5 |

| | | | |
|------------------------|---|---|---|
| Presentation | 1 | 3 | 4 |
| Systematic observation | 1 | 0 | 1 |

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies

| | Description |
|---------------|---|
| Case studies | Analysis of an event, issue or actual event in order to know, interpret, solve, generate hypotheses, comparing data, reflect, complete knowledge, diagnose and training in alternative dispute resolution procedures. |
| Debate | Open discussion between a group of students. You can focus on a topic of subject content, the analysis of a case, the outcome of a project, exercise or problem previously developed a keynote address ... |
| Seminars | Activity focused on the work on a specific topic, which allows to deepen or complement the contents of the subject. They can be used as a complement to the theoretical classes. |
| Mentored work | The student, individually or in groups, prepares a paper on the subject of matter or prepare seminars, research, memoirs, essays, summaries of readings, lectures, etc.. Generally it is an autonomous activity of the student that includes finding and collecting information, reading and literature management, writing ... |
| Lecturing | Presentation by the teacher of the contents on the subject under study, theoretical and / or guidelines for a job, exercise or project to be developed by the student. |

Personalized assistance

| Methodologies | Description |
|---------------|--|
| Case studies | To propose a series of cases and situations. - Develop and provide a script to guide the analysis and focus the points of interest for further discussion (background material) - Correct and provide feedback to students on the process and results of the proposed activities. Even if the activities are carried out autonomously, students will have access for tutoring sessions so that teachers can follow up on the activity. |
| Debate | Select topics, energize the debate and evaluate the students. Revise of tests and evaluation activities. Communication of the results (publication of notes and data and/or review procedure). Even if the activities are carried out autonomously, the students will have tutorial sessions at all times so that the teaching staff can monitor the activity. |
| Seminars | Preparation of documentation to guide the individual or group development of activities. Dynamization of the session. Even if the activities are carried out autonomously, the students will have tutorial sessions at all times so that the teachers can monitor the activity. |
| Mentored work | Determine or propose the topic of study. Monitoring and evaluating the work, both during the process and the final result. Even if the activities are carried out autonomously, the students will have tutorial sessions at all times so that the teachers can monitor the activity. |

| Tests | Description |
|--------------------------|---|
| Objective questions exam | Individualized attention to students during the tests. Review of the tests and evaluation activities. |
| Presentation | Preparation of evaluation activities and evaluation criteria/indicators Review of evidence and evaluation activities. Communication of results (publication of notes and data and/or review procedure). Even if the activities are carried out autonomously, the students will have tutorial sessions at all times so that the teaching staff can monitor the activity. |
| Systematic observation | Preparation of a list of aspects to be evaluated. Observation of the students. |

Assessment

| | Description | Qualification | Training and Learning Results |
|--------|---|---------------|--|
| Debate | Open talk among a group of students. Can be focused on a subject of the contents of the subject, on the analysis of a case, on the result of a project, exercise or problem previously developed in a master session... In the discussion, knowledge, skills and attitudes are evaluated. Objectives: To evaluate higher thinking (analysis and synthesis). | 18 | A3 B1 C33 D1 A4 B3 C34 D2 B4 D3 B5 D4 |

| | | | |
|--------------------------|--|----|---|
| Mentored work | The students, individually or in groups, carry out activities, which can be - Monographic works, search for information in publications, databases, articles, books... on a specific topic. - Preparation of seminars, research, reports, essays, conferences, etc. - Reviews of current scientific articles. - Projects (design and development of projects). Objectives: - Acquire and consolidate knowledge - Evaluate knowledge. - Developing transversal skills and competences | 15 | A1 B1 C33 D1 A2 B4 C34 D2 A4 B5 D3 B7 |
| Objective questions exam | Tests that evaluate knowledge that include closed questions with different answer alternatives (true/false, multiple choice, matching of elements...). Students select an answer from a limited number of possibilities (preferably four) with a reduction for failure of a value equal to the percentage of success (-0.25 pts. in the case of four possible answers, if the value of the question was 1 pt). The test of objective questions only evaluates knowledge. It does not evaluate skills or attitudes. It evaluates thinking skills inferior. It assesses knowledge, understanding and application. | 20 | A1 B2 C33 A2 B4 A3 |
| Presentation | Exposure by the students to the teacher and/or a group of students of an aspect of the subject's contents or results of a work, exercise, project... You can carry out individually or in a group. In the presentation, knowledge, skills and attitudes are evaluated. The objectives are to evaluate higher thinking (analysis and synthesis). | 17 | |
| Systematic observation | Careful, rational, planned and systematic perception to describe and record the manifestations of student behaviour. It is possible to assess learning and actions and how they are carried out valuing order, precision, dexterity, efficiency... The aim is to evaluate higher thinking. | 30 | A1 B1 C33 D1 A2 B3 C34 D2 A3 B7 D3 A4 D4 |

Other comments on the Evaluation

Students who do not pass the subject in continuous training at the first opportunity of each academic year, in which the distribution of evaluation weights is as established above, will have the possibility of having an exam of objective questions, worth 100% of the final mark, in successive calls that are not the first opportunity of each academic year.

Ethical commitment: Students are expected to behave ethically. If unethical behaviour is detected (copying, plagiarism, use of unauthorised electronic devices,...), the student will be considered to be ineligible to pass the subject. Depending on the type of unethical behaviour detected, it could be concluded that the student has not reached the necessary skills to overcome the subject. Students are expected to behave in a respectful and dignified manner and to collaborate with the teaching system, teaching staff, coordination and administrative and services personnel of the Master's degree. Any question due to the lack of ethical and dignified behaviour of the student body may have repercussions on the evaluation of the subject.

Sources of information

Basic Bibliography

- Gómez Mejía, Luis R, **Gestión de recursos humanos**, 9788490352984, 8ª, Pearson, 2016
- Goleman, Daniel, **Liderazgo : el poder de la inteligencia emocional**, 978-84-666-5217-9, Ediciones B, 2013
- Arturo Merayo, **Curso práctico de técnicas de comunicación oral**, 978-84-309-5547-3, 3ª, Tecnos, 2012
- Nayyar, Anand, Kumar, Akshi, **A Roadmap to Industry 4.0: Smart Production, Sharp Business and Sustainable Development**, 3030145433, 1st, Springer, 2020
- Alp Ustundag, Emre Cevikcan, **Industry 4.0: Managing The Digital Transformation**, <https://doi.org/10.1007/978-3-319-57870-5>, 1st, Springer, Cham, 2018
- Ries, Eric, **El Método Lean Startup**, 9788423409495, 11ª, Ediciones Deusto, 2017
- Alexander Osterwalder, Yves Pigneur, **Generación de modelos de negocio : un manual para visionarios, revolucionarios y retadores**, 978-84-234-2799-4, 19ª, Ediciones Deusto, 2018
- Juanma Romero, Luis Oliván, **Emprender en la era digital**, 9788498754407, RTVE, 2017
- Alex López, **Cliente Digital, Vendedor Digital**, 9788494141683, 2ª, Códice, 2017

Complementary Bibliography

- Ruiz Otero, Eugenio,, **Recursos humanos y responsabilidad social corporativa**, 9788448609719, McGraw-Hill Educación, 2017
- Beatriz Valderrama, **Gestión del Talento en la Era Digital**, 9788497277778, 1ª, Eos, 2018

Recommendations

Contingency plan

Description

=== EXCEPTIONAL MEASURES SCHEDULED ===

In front of the uncertain and unpredictable evolution of the sanitary alert caused by the COVID- 19, the University establishes an extraordinary planning that will activate in the moment in that the administrations and the own institution determine it attending to criteria of security, health and responsibility, and guaranteeing the teaching in a no face-to-face stage or no totally face-to-face. These already scheduled measures guarantee, in the moment that was prescriptive, the development of the teaching of a way but agile and effective when being known in advance (or with a wide in advance) by the students and the faculty through the tool normalised and institutionalised of the educational guides DOCNET.

=== ADAPTATION OF The METHODOLOGIES ===

The educational methodologies will give , to be necessary, adapting them to the telematic means that put the disposal of the faculty, in addition to the documentation facilitated through FAITIC and other platforms, email, etc.

When it was not possible to face-to-face teaching, in the measure of the possible, will prevail the teaching of the theoretical contents by telematic means as well as those contents of practices of resolution of problems, classroom of computing, and others, that can be virtualized developed by the students of way guided, tried keep the attendance presenciality for the experimental practices of laboratory, whenever the groups fulfil with the rule established in the moment by the pertinent authorities in sanitary matter and of security. In the case of not being able to be given of face-to-face form, those contents no virtualizable will give or replace by other (autonomous work guided, etc.) that allow to achieve equally the competitions associated to them.

* Educational methodologies that keep

* educational Methodologies that modify

* Mechanism no face-to-face of attention to the students (tutorials)

The tutorials will be able to develop indistinctly of face-to-face form (whenever it was possible to guarantee the sanitary measures) or telematic (email and others) respecting or adapting the schedules of tutorials planned. Besides, it will do an adaptation methodological to the students of risk, facilitating him additional specific information, to accredit that it can not have access to the contents given of conventional form.

* Modifications (proceed) of the contents to give

* additional Bibliography to facilitate to car-learning

Will be able to be added along the course to facilitate the self-learning

* Other modifications

=== ADAPTATION OF The EVALUATION ===

Will keep those proofs that already come making of telematic form and, in the measure of the possible, will keep the face-to-face proofs adapting them to the valid sanitary rule. The proofs will develop of face-to-face form except Rectoral Resolution that indicates they have to do of form non face-to-face, making gave way through the distinct tools put the disposal of the professors. Those no attainable proofs of telematic form will be replaced by other (deliveries of autonomous work guided, etc.)

* Proofs already made

Proof *XX: [previous Weight 00%] [Weight Proposed 00%]

...

* Pending proofs that keep

Proof *XX: [previous Weight 00%] [Weight Proposed 00%]

...

* Proofs that modify

[previous Proof] => [new Proof]

* New proofs

does not proceed

* additional Information

keep the criteria of evaluation adapting the realisation of the proofs, in the case to be necessary and by indication in

