

**1. General information****Course:** AUTOMATION AND PROCESS IMPROVEMENT**Type:** ELECTIVE**Degree:** 405 - DEGREE IN COMPUTER SCIENCE ENGINEERING (TA)**Center:** 15 - FACULTY OF SOCIAL SCIENCES AND INFORMATION TECHNOLOGIES**Year:** 3**Main language:** Spanish**Use of additional languages:****Web site:****Code:** 42360**ECTS credits:** 6**Academic year:** 2021-22**Group(s):** 60**Duration:** C2**Second language:****English Friendly:** Y**Bilingual:** N**Lecturer:** IVÁN GONZÁLEZ DÍAZ - Group(s): 60

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2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

Not established

4. Degree competences achieved in this course**Course competences**

Code	Description
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
INS04	Problem solving skills by the application of engineering techniques.
PER02	Ability to work in an international context.
SI01	Ability to integrate information and communication technology solutions and entrepreneurial process so as to fulfil the needs for information in organisation, allowing them to meet their goals in an effective and efficient manner, providing them with competitive benefits.
SI03	Ability to actively take part in the specification, design, implementation, and maintenance of information and communication systems.
SI04	Ability to understand and apply principles and practices of organisations in such a way that they can be the link between technical and managerial aspects, and actively participate in the user's learning process.
SIS01	Critical thinking.
SIS03	Autonomous learning.

5. Objectives or Learning Outcomes**Course learning outcomes**

Description

Additional outcomes**6. Units / Contents****Unit 1:** Introduction**Unit 2:** BPM - Business Process Management**Unit 3:** Business Process Design - BPMN**Unit 4:** Business Process Automation - BPMS**Unit 5:** Business Process Improvement**7. Activities, Units/Modules and Methodology**

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB04 SI01 SI03 SI04 SIS01	0.72	18	N	-	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	PER02 SI01 SI03 SI04 SIS01 SIS03	0.6	15	Y	N	
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	CB04 INS04 PER02 SI01 SI03 SI04 SIS01 SIS03	0.6	15	Y	Y	
Individual tutoring sessions [ON-SITE]	Group tutoring sessions	CB04 SIS01	0.18	4.5	N	-	
Final test [ON-SITE]	Assessment tests	CB04 INS04 PER02 SI01 SI03 SI04 SIS01 SIS03	0.3	7.5	Y	Y	
Study and Exam Preparation [OFF-SITE]	Self-study	SIS03	2.1	52.5	N	-	
Writing of reports or projects [OFF-SITE]	Self-study	CB04 INS04 PER02 SI01 SI03 SI04 SIS01	0.9	22.5	Y	N	
Other off-site activity [OFF-SITE]	Practical or hands-on activities	CB04 INS04 PER02 SIS01 SIS03	0.6	15	N	-	
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System

Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Final test	50.00%	50.00%	
Assessment of active participation	10.00%	0.00%	
Assessment of problem solving and/or case studies	15.00%	15.00%	
Laboratory sessions	25.00%	25.00%	
Total:	100.00%	90.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

In compulsory activities, a minimum mark of 40% is required in order to pass that activity and have the possibility to therefore pass the entire subject. The evaluation of the activities will be global and therefore must be quantified by means of a single mark. If the activity consists of several sections, each section may be evaluated separately provided students are informed in writing of this evaluation criterion at the beginning of the academic year. In the case of the activities that may be retaken (i.e., rescheduling), an alternative activity or test will be offered in the resit/retake exam call (convocatoria extraordinaria).

The partial tests will be common for all the theory/laboratory groups of the subject and will be evaluated by the lecturers of the subject in a serial way, i.e., each part of the final exam will be evaluated by the same lecturer for all the students.

A student is considered to pass the subject if she/he obtains a minimum of 50 points out of 100, taking into account the points obtained in all the evaluable activities, and also has passed all the compulsory activities.

For students who do not pass the subject in the final exam call (convocatoria ordinaria), the marks of activities already passed will be conserved for the resit/retake exam call (convocatoria extraordinaria). In the case of the passed recoverable activities, the student will have the opportunity to receive an alternative evaluation of those activities in the resit/retake exam call and, in that case, the final grade of the activity will correspond to the latter grade obtained.

The qualification of the passed activities in any call, except for the final test, will be conserved for the next academic year at the request of the student, provided that it is equal or superior to 5 and the training activities and the evaluation criteria of the subject are not modified in the next academic year. The failure of a student to attend the final test will automatically result in her/him receiving a "Failure to attend" (no presentado). If the student has not passed any compulsory evaluation activity, the maximum final grade will be 40%.

Non-continuous evaluation:

Students who are unable to attend training activities on a regular basis may apply at the beginning of the semester for the non-continuous assessment mode. Similarly, if a student who is undergoing continuous assessment incurs any circumstance that prevents her/him from regularly attending the classroom-based training activities, she/he may renounce the accumulated mark in continuous assessment and apply for the non-continuous assessment mode. In this case, a notification by the student must be given before the date scheduled for the tests in the ordinary call, in accordance with a deadline that will be informed at the beginning of the semester.

Students who take the non-continuous assessment mode will be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences), through the assessment systems indicated in the column "Non-continuous assessment".

In the "non-continuous assessment" mode, it is not compulsory to keep the mark obtained by the student in the activities or tests (progress test or partial test) taken in the continuous assessment mode.

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Dumas, M., La Rosa, M., Mendling, J., Reijers, H.	Fundamentals of Business Process Management. 2nd edition http://fundamentals-of-bpm.org/	Springer		978-3-662-56508-7	2018	en papel y electrónico
J. Freund, B. Rucker, B. Hitpass	BPMN 2.0 Manual de Referencia y Guía Práctica	BPM Center		978-956-345-182-5	2014	en papel y electrónico
S. Scheps	Business Intelligence for Dummies	Wiley Publishing Inc.		978-0-470-12723-0	2008	electrónico