Mondragon Unibertsitatea
Goi Eskola
Politeknikoa
Escuela Politécnica
Superior

[MNC001] PLATFORMS AND INFRASTRUCTURES

GENERAL INFORMATION

Studies	MASTER DEGREE IN DATA ANALYSIS, CYBERSECURITY AND CLOUD COMPUTING	**Subject**	Development and Operations
Semester	1	**Course** 1	**Mention / Field of specialisation**
Character	COMPULSORY		
Plan	2019	**Modality** Adapted Face-to-face	**Language** CASTELLANO
Credits	6	**Hours/week** 0	**Total hours** 64 class hours + 86 non-class hours = **150 total hours**

PROFESSORS

AGIRRE BASTEGIETA, JOSEBA ANDONI

ILLARRAMENDI REZABAL, MIREN

REQUIRED PREVIOUS KNOWLEDGE

Subjects	**Knowledge**
(No specific previous subjects required)	*(No previous knowledge required)*

SKILLS

VERIFICA SKILLS

SPECIFIC

MNCE10 - Defining, designing and implementing scalable, flexible and resilient architectures that address existing problems and accelerating the deployment of different applications.

CROSS

MNCTR1 - Ability to work in multidisciplinary teams and in a multilingual environment (Basque/Spanish/English) and to communicate, both orally and in writing, knowledge, procedures, results and ideas related to the life cycle of the data, cybersecurity, and development and operations.

BASIC

M_CB7 - To know how to apply the acquired knowledge and competencies and the ability to solve problems in new or unfamiliar contexts within wider (or multidisciplinary) environments related to their field of study

M_CB9 - To share knowledge, conclusions and their rationale with specialised and lay audiences in a clear, unambiguous manner

CONTENTS

1. Docker Containers basic concepts
2. Cluster management: basic concepts
3. Cloud computing
4. Infrastructure provisioning

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	**Bibliography**
Moodle Platform	http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_lnk.pl?grupo=MASTERDATUANALISIA11&ejecuta=25&
Class presentations	
Computer practical training	