



Universidad
Politécnica
de Cartagena

Campus
de Excelencia
Internacional

THEORETICAL FRAMEWORK OR LITERATURE REVIEW

Transversal Activities of Doctorate

Universidad Politécnica de Cartagena

Academic year: 2016-2017

1. General course information					
Name	Theoretical framework or literature review				
Level	Doctorate				
Code	300001003				
University	Universidad Politécnica de Cartagena				
Language	English				
ECTS	1	hours / ECTS	10	Total hours	30

2. Lecture data		
Lecturer in charge	Dr. Juan Francisco Sánchez Pérez	
Department	Applied Physic	
Knowledge area	Applied Physic	
Office location	Universidad Politécnica de Cartagena. ETSIA	
Telephone	+34 968 32 54 79	Fax
email	Juanf.sanchez@upct.es	
URL / WEB	https://aulavirtual.upct.es/	
Office hours	Monday at 9:30 – 13:30 CET by email or Aula Virtual	

2. Lecture data		
Lecturer in charge	Dr. Iván Alhama Manteca	
Department	Civil Engineering	
Knowledge area	Soil mechanics	
Office location	Universidad Politécnica de Cartagena. ETSIC	
Telephone	+34 868 07 12 78	Fax
email	Ivan.alhama@upct.es	
URL / WEB	https://aulavirtual.upct.es/	
Office hours	Monday at 9:30 – 13:30 CET by email or Aula Virtual	

3. Course objectives
The main objective of this course is to provide PhD students with the knowledge, skills and understanding necessary to evaluate research critically and to carry out rigorous

research in their study field; and to enable students to read critically research papers which have used a wide range of research methodologies and methods.

4. Theory programme

Unit 1. Purpose of literature or theoretical framework review: citation/references. Use of citations. The selection of sources. (1h)

Unit 2. Types of sources: scientific journal article. Peer review papers (2h)

Unit 3. Types of sources: conference paper, book chapter, textbook and technical report. (1h)

Unit 4. Types of sources: electronic sources. (1h)

5. Practical programme

Research literature from electronic sources (5h)

Use of web of science and journal webs for finding research papers. The PhD students will look for several papers according with their characteristics. Discussion of a published technical article, evaluating the presented research critically. The PhD student will develop his/her capacity for critical analysis.

6. Hours distribution

Activity	Location	Student work	Hours
Theory programme	Class room	Attend class	5
		Homework: study of the theory contents	10
Practice	Computer room	Attend class	5
		Homework:	4
Tutoring	Virtual	Virtual by email	6
			30