

**COURSE GUIDE: 2015-16**

<b>COURSE DETAILS</b>			
Name :	<b>Scientific and Technical Communication</b>		
Code :	70784254	Plan :	Masters in Mediterranean Greenhouse Horticulture
Academic year :	2015-16	Level :	Official Masters Degree
Course :	1	Type :	Optional
Semester :	Second		
<b>TIME DISTRIBUTION IN ACCORDANCE WITH REGULATION</b>			
ECTS :	3	In-class hours:	22.5
		Not in-class hours:	52.5
		Total time (in hours):	75.0
<b>USE OF VIRTUAL PLATFORM:</b>	Semi-presential (b-learning)		

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### ACTIVITIES ORGANIZATION

*Planned activities for learning and workload distribution per activity (in hours)*

I. STUDENT'S ACTIVITIES (In-class / Online)	• Seminars	
	• Teaching group	16.5
	• Work group / small group	6.0
	<i>Total In-class/Online time :</i>	22.5
II. STUDENT'S AUTONOMOUS ACTIVITIES (not in-class)	•	52.5
	<i>Total not in-class time :</i>	52.5
TOTAL WORKING HOURS		75.0

### ELEMENTS OF INTEREST FOR COURSE LEARNING

Justification of contents

The subject "Scientific and technical communication" teaches various aspects of the transmission of scientific information to scientific audiences and also to non-scientific audiences such as farmers, technical advisers, policy makers, and administrators. Students are taught how to prepare scientific and technical documents, posters, abstracts and to make oral presentations. The subject also teaches how to locate and manage scientific information, and how to prepare research proposals.

Other courses related

This subject is related to all other subjects of the Masters.

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2/7



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Minimum knowledge required to deal with the Course

Students should have a good level of English (e.g. B2), and be able to use a personal computer

## COMPETENCIES

### General competencies

*General objectives of the University of Almería*

- Knowledge of a second language
- Basic knowledge of the profession
- Skill in the use of ICT
- Capacity and self-criticism
- Ability to learn to work independently

*Other general objectives*

- To understand and acquire knowledge
- Application of knowledge
- Ability to make judgments
- Ability to communicate

### Specific competencies developed

- Knowledge of the basics of scientific and technical communication, both written and oral;
- Knowledge and the capacity to use of the most relevant data bases to locate scientific and technical information.
- Capacity to identify the most relevant scientific journals for a possible article.
- Knowledge of procedures associated with applying for a research project

## LEARNING OBJECTIVES/OUTCOMES

- Know the different forms of scientific communication
- Be aware of the requirement to adapt science communication to different audiences
- Know the general characteristics of effective science communication
- Know the most important tools to locate scientific information
- Understand the basics of preparing scientific papers, abstracts and communications for congresses
- Understand the basics of effective oral presentations
- Understand the basics of preparing effective posters
- Understand the basics of preparing applications for research projects

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3/7



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<b>CONTENTS</b>			
<b>Module</b>	<b>Thematic Unit I. Introduction to scientific communication</b>		
<b>Content</b>	<b>Theme 1. Considerations of scientific communication.</b> Functions, features and forms of scientific communication		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		2.0
<b>Description of autonomous workload</b>			
<b>Content</b>	<b>Theme 2. Locating scientific information</b> The main databases in the agricultural sciences; use of the databases		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		3.0
Work group	Location, consultation and processing of information		1.0
<b>Description of autonomous workload</b>			
<b>Content</b>	<b>Theme 3. Divulagation and Extension</b> Transmission of scientific information to farmers and field technicians		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		3.0
<b>Description of autonomous workload</b>			
<b>Module</b>	<b>Thematic Unit 2. Written communication</b>		
<b>Content</b>	<b>Theme 4. Preparation of a scientific paper to be published in journals indexed in the JCR</b> Explanation of the JCR; selection of the journal; planning and preparation of a paper; submission and review process of papers published in the JCR		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures</i>	<i>Observations</i>	<i>Hours</i>

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4/7



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	<i>and activities</i>		<i>In-class/ Online</i>
Teaching group	Class		3.0
Work group	Location, consultation and processing of information		4.0
<b>Description of autonomous workload</b>			
Students complete a questionnaire			
<b>Content</b>	<b>Theme 5. Preparation of other scientific articles</b> Preparation of abstracts and short communications for congresses		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		1.0
<b>Description of autonomous workload</b>			
Each students prepares an abstract			
<b>Content</b>	<b>Theme 6. Preparation of Posters</b>		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		1.0
	Other	Presentation of posters prepared by students	1.0
<b>Description of autonomous workload</b>			
Each students prepares a poster			
<b>Module</b>	<b>Thematic Unit 3. Oral communication</b>		
<b>Content</b>	<b>Theme 7. Preparation of oral presentations</b>		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		1.0
	Other	Oral presentations of students	1.0
<b>Description of autonomous workload</b>			
Each student prepares and presents an oral presentation.			
<b>Module</b>	<b>Thematic Unit 4. Applications for funding</b>		

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5/7



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<b>Content</b>	<b>Theme 8. Preparation of a proposal for a research project</b>		
<b>Learning system and methodology</b>			
<i>System</i>	<i>Learning procedures and activities</i>	<i>Observations</i>	<i>Hours In-class/ Online</i>
Teaching group	Class		1.5
<b>Description of autonomous workload</b>			
<b>EVALUATION SYSTEM</b>			
<b>Assessment criteria</b>			
<ul style="list-style-type: none"> <li>- Attendance and participation in class</li> <li>- Answers to a questionnaire</li> <li>- Quality of poster prepared by each student</li> <li>- Quality of oral presentation prepared and presented by each student</li> <li>- Quality of the Abstract prepared by each student</li> </ul>			
<b>Marking system</b>			
	<i>Activity</i>	<i>(Number of hours)</i>	<i>Percentage</i>
I. STUDENT 'S ACTIVITIES (In-class/Online)	<ul style="list-style-type: none"> <li>• Teaching group</li> </ul>		50%
II. STUDENT'S AUTONOMOUS ACTIVITIES (Autonomous work)	<ul style="list-style-type: none"> <li>• Individual work</li> </ul>		50%
<b>Assessment instruments</b>			
<ul style="list-style-type: none"> <li>- Tests, exercises, problems.</li> <li>- Observations of professors</li> <li>- Final assessment of reports, papers, projects, etc..</li> <li>- Final tests (written or oral).</li> </ul>			
<b>Monitoring mechanisms</b>			
<ul style="list-style-type: none"> <li>- Attendance and participation in classroom activities</li> <li>- Submission of learning activities</li> <li>- Submission of learning activities in the virtual classroom</li> <li>- Attendance at tutorials</li> </ul>			

<b>BIBLIOGRAPHY</b>
<b>Recommended bibliography</b>
How to write and publish a scientific paper. ( <i>Day, R., Gastel, B.</i> )
Scientific papers and presentations ( <i>Davis, M</i> )
Bibliography existing in the library of the University of Almeria
<a href="http://almirez.ual.es/search/x?SEARCH=70534211">http://almirez.ual.es/search/x?SEARCH=70534211</a>

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6/7



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## WEB ADRESSES

### DIRECCIONES WEB

- <http://www.writing.engr.psu.edu/>

*Writing Guidelines for Engineering and Science Students*

- <http://io.uwinnipeg.ca/~clark/research/comm/comm.html>

*Scientific Communication*

- <http://www.cimms.ou.edu/~schultz/communication.html>

*Good Scientific Communication Skills*

- <http://www.sicb.org/newsletters/fa97nl/sicb/poster.html>

*Mortal Sins in Poster Presentations or How to Give the Poster No One Remembers*

- <http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.0030102>

*Ten Simple Rules for a Good Poster Presentation*

- <http://www.ploscompbiol.org/article/info%3Adoi%2F10.1371%2Fjournal.pcbi.0030077>

*Ten Simple Rules for Making Good Oral Presentations*

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