

# MOOC sobre Sierra Nevada

## MoocUGR on Sierra Nevada

### COURSE GUIDE

#### DESCRIPTION

This programme is a MOOC (Massive Open Online Course), meaning that it is delivered online, is open to all, and is free of charge. It has been designed by the University of Granada.

It aims to offer a learning experience that is motivating, direct, and straightforward in terms of methodology, while delivering rigour and depth of content. All the topics have been designed and structured by a team of scholars, researchers, experts, and professionals from several fields and disciplines. Together, they will approach Sierra Nevada from many different perspectives and spheres of knowledge—both historically and from a modern standpoint.

#### OBJETIVES

- **GENERAL:**

To understand Sierra Nevada from the viewpoints of history, the natural world, landscape, and sports and leisure—including its fragility and its need to be protected.

- **SPECIFIC:**

To be familiar with:

1.- the historical aspects of Sierra Nevada, such as the origin of its name, its traditional economic use, its discoverers, the creation of its infrastructures, the evolution of its access points, and the changing exploitation of its resources.

2.- the key aspects of the physical and biological environment of Sierra Nevada and its landscape: geological, hydrological, botanical, and zoological.

3.- the uniqueness of Sierra Nevada among the European mountains, and its need for protection; the efficient and sustainable use of its resources and an understanding of what these are; and, more broadly, the ecosystem services provided by Sierra Nevada.

4.- how Sierra Nevada has become a world-class observation site for the study of climate change.



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5.- the range of sporting opportunities offered by Sierra Nevada (including skiing, climbing, mountaineering, and high-level sport), the most impressive routes that visitors can experience, and its most outstanding peaks.

## DURATION AND FORMAT

The course lasts for six consecutive weeks and is divided into six main modules and one cross-cutting module.

It is delivered in a flexible, virtual format (that is, exclusively online), which means there is no fixed schedule. Each participant can choose the timetable that best works for them in terms of study and completion of weekly tasks. However, we do recommend that you follow the pace suggested by the course, so as not miss out on participation in the online community. Each Monday, a new module will open; and on Friday of that same week, the corresponding set of multiple-choice questions will be uploaded for you to complete.

Nor are there any deadlines for completing the weekly questions or participating in the forums and other proposed activities. The only deadline is the end of the course, and the only requirement for participation is to have an Internet connection.

## CONTENT AND TIMING

- CONTENT

The course has been divided into six main modules, each one corresponding to a working week, as shown in the following schedule:

CONTENT AND TIMING	
<p><b>Week 1: What is Sierra Nevada?</b> (Coordinator: Manuel Titos Martínez)</p> <ul style="list-style-type: none"><li>- Sierra Nevada: The very ceiling of Iberia</li><li>- The discoverers of Sierra Nevada</li><li>- An inhabited Sierra Nevada</li><li>- The three-thousanders of Sierra Nevada</li><li>- Sierra Nevada National Park and Nature Park</li></ul> <p><i>The value of the mountains</i> (Eduardo Martínez de Pisón)</p>	<p><b>Week 2: Historical Works and economic exploitation</b> (Coordinator: Manuel Titos Martínez)</p> <ul style="list-style-type: none"><li>- The roads up to Sierra Nevada</li><li>- The Sierra Nevada tram: A trip to the country of dreams</li><li>- The hostels and mountain refuges of Sierra Nevada</li><li>- The economic exploitation of the water and snow of Sierra Nevada.</li><li>- Taming the waters: the irrigation channels of Sierra Nevada</li></ul> <p><i>The mountains: Caotic harmony</i> (Joaquín Araujo Ponciano)</p>

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## CONTENT AND TIMING

### Week 3: The physical and biological environment

(Coordinator: Antonio Castillo Martín)

- How Sierra Nevada was formed
- Water: The great treasure of Sierra Nevada
- The flora and vegetation of Sierra Nevada
- The fauna of Sierra Nevada
- Sierra Nevada: a window onto the Universe

*Sierra Nevada, a scientific laboratory*  
(Rafael Rodrigo)

### Week 4: Nature and culture in the landscapes of Sierra Nevada

(Coordinator: Yolanda Jiménez Olivencia)

- Diversity in the landscapes of Sierra Nevada
- Sierra Nevada: a landscape is formed
- Old and new forms of agriculture in the valley of the Alpujarra
- Sierra Nevada and the challenge of territorial development
- Pasturelands and livestock farming in Sierra Nevada

### Week 5: Sierra Nevada: A Protected Area

(Coordinator: Javier Sánchez Gutiérrez)

- Sierra Nevada: National Park
- Human pressure on mountain peaks
- Sierra Nevada as a global change observatory and laboratory
- What does the ecosystem of Sierra Nevada provide us with?
- Mulhacén

*Why do we have to protect the mountains?*

(Federico Mayor Zaragoza)

### Week 6: Enjoying the mountain: Sports in Sierra Nevada

(Coordinator: Justino Cebeira Fernández)

- Climbing in Sierra Nevada
- Skiing and current trends in the winter-sports stations
- High-level sports in Sierra Nevada
- Mountaineering: Some extraordinary routes in Sierra Nevada

### Across Module 7: Culture and art around Sierra Nevada

- Sierra Nevada in the literatura narrative
- Sierra Nevada in poetry
- Sierra Nevada in painting
- Sierra Nevada in Photography
- A look at the landscape from poetry (Rafael Guillén)
- Mountains and Art (Eduardo Martínez de Pisón)



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- **TIMING** ( please consult the course calendar is on the plataforma [abierta.ugr.es](http://abierta.ugr.es))

## METHODOLOGY

As MOOCs are delivered via an online methodology, participants must access the course platform online, having previously enrolled (free of charge).

The course is open to anyone, in any location, interested in Sierra Nevada.

Each week, a new module will be uploaded to the platform, comprising a series of written materials and videos. In the Forums, complementary weekly activities will be explained.

The resources and materials made available to students have been specifically designed for this course.

## MATERIALS

- Multimedia videos made by specialists on each topic
- Texts prepared by each specialist for the sub-module accompanying each video
- References and recommended bibliography (mainly in Spanish).
- Others resources.

### Proposed weekly activities:

- Create you profile on the platform
- Participate in the Forums
- Watch the explanatory videos
- Read the recommended articles
- Complete the set of multiple-choice questions to test your knowledge after each module

## END-OF-COURSES CERTIFICATION

As MOOCs pertain to non-formal education and lifelong learning, participation is entirely voluntary. This means that participants can, if they wish, progress to each successive module without having to “pass” the previous week’s module. We will notify participants when the cross-cutting module becomes available (this module is not included in the final course evaluation).

Each module has a corresponding badge relating to its content. Participants achieve these badges by viewing the materials and completing the multiple-choice questions about each module.



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As participants progress through the course, the badges they have acquired are shown on their online profile.



Módulo 1: **Trevenque**



Módulo 2: **Almirez**



Módulo 3: **Caballo**



Módulo 4: **Alcazaba**



Módulo 5: **Veleta**



Módulo 6: **Mulhacén**



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**Apollo Parnasio nevadensis**

## Recognition of your participation in this course:

- CERTIFICATE OF ACCREDITATION. Those who have fulfilled all the elements of the MOOC, as above, may request a certificate formally confirming the number of course 75 hours. At the end of the course, participants will receive information regarding how to apply for this certificate. Details will also be supplied on how to make the payment electronically (€12 per credit).



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