

**Doctoral Program in**

**Natural Resources and Environment**

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| **RESEARCH PLAN** |
| **Data of the doctoral student** |
| Name and sumame |
| Títle of the Research Plan |
| Keywords (up to 5 in alphabetical order) |
| **Thesis director** |
| Name and sumame |
| **Thesi codirector (if applicable)** |
| Name and sumame |
| **Tutor or speaker (if applicable))** |
| Name and sumame |
| **Degree: University and year:** |
| **Master’s degree: University and year:** |

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# State of the art

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| Description of the previous theoretical basis on which the doctoral thesis is based. This chapter is  Essential to explain the contributions to knowledge made by the thesis in the current state of knowledge. It is important that the works are clearly cited and all references are detailed in section 9.  Maximum legth of 5 pages.  In case of entering tables and figures follow the following format and enter the description by inserting the title with the right mouse button: Table 1. Detailed description of the table contents (indicate source)      Figure 1: Detailed description of the content of the figure (if it is not your own source, please indicate it). |

# Objectives and hypothesis of the thesis

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| Clearly define the overall objective of the thesis, specific objectives and starting hypotheses . |

# Description of the methodology

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| Describe the methodology, material and methods and/or description of the models necessary to carry out the doctoral thesis.  Maximun length 3 pages. |

# Work Plan (Gantt chart)

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| Specify the timing of the tasks to achieve the specific objectives detailed in section 2. Include the planning of the derived items as detailed in section 6 |

# Expected results

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| Description and discussion of previous results obtained and expected.  Include the initial and final TRL of the thesis, if applicable. |

# Publications and plan for future publications in indexed journals and/or patents

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| Remember that in order to be accepted as publications associated with the thesis, the [affiliation](https://bibliotecnica.upc.edu/investigadors/signatura-filiacio-institucional) of the University of the doctoral program must be stated.  E.g. Author 1, Author 2, Author 3,  1Departament of industrial Mining Engineering and ICT, Polytechnic School of Engineering of Manresa, Polytechnic University of Catalonia. |

# Participation in congresses held and planned

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# Participation in national and international research projects

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# Bibliography

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| Follow the [UNE-ISO 690 standard](https://guies.bibliotecnica.upc.edu/com-citar/citar-documents). |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Signed:   |  |  | | --- | --- | |  |  | | The doctoral student  Signature and date: | Director’s approval  Signature and date: | | Co-director approval  Signature and date: | Tutor’s approval  Signature and date: | |  |  | |

**The evaluation board of the research plan is made up of:**

* **President:**
* **Vocal 1:**
* **Vocal 2:**

**Rate the submitted PR:**

* **Satisfactory**
* **Not satisfactory**

|  |
| --- |
| Place and date |
| Signature of the chairman of the evaluation board: |

Observations of the court: