



## PROGRAMA DE DOCTORADO EN MATEMÁTICA APLICADA



**UNIVERSIDAD DEL BÍO-BÍO**

## DOCTORAL THESIS PROJECT

**Student:** Nombres, Apellidos

**Area of Specialization:**

**Director:** Dr. Nombre Apellido  
Universidad del Bío-Bío, Chile.

**Co-director:** Dr. Nombre Apellido,  
Institución, País

CONCEPCIÓN, MONTH YEAR

## General Information

**Proposal Title:**       frewfewfwe  
                                  wefewef

**Proposal Keywords:** fewefewf  
                             fewefew  
  
                             rewrewrew,  
                             rewrewrew

**Primary Field:**       wededewdew

**Secondary Fields:**   dewdew, dewedwe, dewfew

## 1. Introduction and General Background

jhghghghg

## 2. Proposal Abstract

kjbcfsdjhdvjdhs

## 3. Proposal Description

efefwefwefwe

## 4. General Goals

ljknfedjfnekwfwe

## 5. Hypotheses

erwgreawefewf

## 6. Methodology

fefewrrew

## 7. Work Plan

In what follows we describe each activity to be carried out per semester.

- **yea1-semester1:**
- **year1-semester2:**
- **year2-semester1:**
- **year2-semester2:**

In the following table we present the activity schedule for the two years of the project to be initiated in “month” “year”,

| Activity                       | Year 2015 |         | Year 2016 |         | Year 2017 |         |
|--------------------------------|-----------|---------|-----------|---------|-----------|---------|
|                                | Aug-Sep   | Oct-Dec | Jan-Jul   | Aug-Dec | Jan-Apr   | Apr-Aug |
| Bibliographical revision       | X         | X       | X         | X       | X         | X       |
| Project presentation           | X         |         |           |         |           |         |
| International scientific visit |           | X       | X         |         |           |         |
| International conferences      |           |         |           |         | X         |         |
| Writing articles               | X         | X       | X         | X       | X         |         |
| Implementation phase of thesis |           | X       | X         | X       | X         | X       |
| Communication phase            |           |         |           |         |           | X       |

## 8. Bibliographical References

### Referencias

- [1] A. ERN AND J.-L. GUERMOND, Theory and Practice of Finite Elements. Applied Mathematical Sciences, Springer-Verlag, New York, vol. 159, (2004).
- [2] HECKMAN G., DE LAAT T., *On the regularization of the Kepler problem*, J. Symplectic Geom. 10, no. 3, 464-473. (2013)