

Special Topics in Geophysics

GPH 575

Course Overview:

The course is designed to explore emerging and specialized areas within the field of geophysics. It explores up-to-date research, techniques, and advancements in geophysical exploration, providing students with a deep understanding of cutting-edge topics and their practical applications.

Course Objectives:

- Explore Emerging Geophysical Techniques.
- Investigate Specialized Geophysical Applications.
- Address Environmental and Societal Challenges.
- Engage in Research and Case Studies.
- Develop Reading and Writing Skills.
- Enhance Communication and Presentation Skills.

Course Structure:

- Lectures.
- Sessions.
- Workshops.
- Discussions.
- Research Projects.

Assessment:

- Assignments.
- Reports.
- Research Papers.
- Presentations.
- Examinations.

Prerequisites:

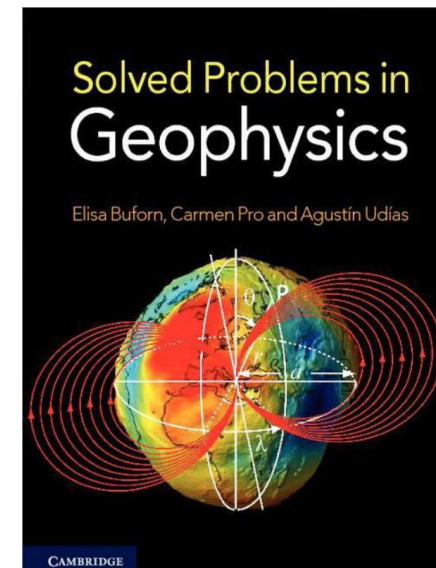
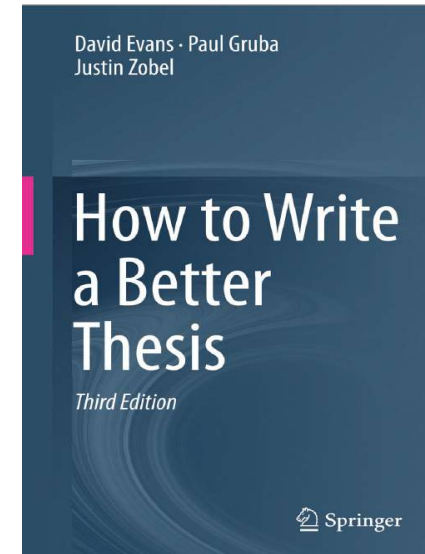
- Prior Knowledge of Geophysical Principles.
- Data Analysis.
- Mathematical Methods.
- Programming Languages and Software.
- Geophysical Data Processing.

Credits:

2 hours (2+0+0)

Text Books:

- ❑ **How to Write a Better Thesis** by David Evan, Paul Gruba and Justin Zobel (2014).
- ❑ **Solved Problems in Geophysics** by Elisa Buforn, Carmen Pro and Agustín Udías (2012).



Grading:

<input type="checkbox"/> Assignments	20
<input type="checkbox"/> Reports	20
<input type="checkbox"/> Research Proposal	20
<input type="checkbox"/> Presentations	20
<input type="checkbox"/> Examinations	20

I Expect From You:

- Attendance.
- Participation.
- Deliver What is Needed On Time.
- Practice Active Learning.
- Read More and More.
- Seek Help When Needed.

Tips and Advices:

- Always Do Your Best.
- Develop Reading, Writing and Presentation Skills.
- Choose a Right Research Idea/Topic.
- Publish, Publish and Publish.
- Have a Good Study/Life Balance.