



Universidad
de Navarra

Seminar I

Guía docente 2024-25

INTRODUCTION

FRAUD ANALYTICS

- **Course Description:** According to the ACFE's 2020 *Report to the Nations*, organizations that use proactive data analytics report fraud losses that are 33% lower than organizations that do not use data analytics as an anti-fraud control. The aim of this course is to help students develop the necessary knowledge and skills to think critically about accounting information. With this course, students gain the knowledge of Anti-Fraud Data Analytics Tests.
 - Students will learn the key elements of important fraud cases
 - Develop a high-level accounting profile to detect inconsistencies
 - The main goal is to guide the students to the fraud detection methods in real world situations
 - Acquire the accounting and fraud knowledge of complex transactions
 - Transform input data into useful information through proper analytic tools
- **Type of Course:** Mandatory
- **Dates.** February: 20 and 27. March: 5 and 12. April: 9. Tuesdays from 9 a.m. to 12 a.m. (Amigos Building, Seminar 23)
- **ECTS:** 1.5 (15 hours)
- **Course and Semester:** 2 - Second Semester
- **Language:** English
- **Title:** Fraud Analytics
- **Required level:** High level of Financial Accounting and Accounting Consolidation
- **Specialization:** Accounting and Finance
- **Professor:** Germán López Espinosa

LEARNING OUTCOMES (Competencies)

- Gain an in-depth understanding of the techniques used to detect financial statement fraud
- Develop a deeper understanding of the Benford's Law
- Know about and manage advanced tools and techniques to prevent and detect financial statement fraud
- Gain an in-depth knowledge of the workings of financial markets and its relation to financial pressure
- Solve real cases of financial statement frauds
- Improve their analytical skills and logical reasoning

PROGRAM

- Fraud Tree
- Detecting accounting inconsistencies
- Financial Statements Fraud
- F-score, M-score and Benford's Law
- Anti-Fraud Data Analytics Tests
- Pescanova Case
- Wirecard Case



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- Non-fraud cases
- Stock parking
- Treasury stocks parking
- Follow the money
- Obtain, clean and prepare data for fraud analytics
- Apply data analytics methods to assist in the external and internal audit processes

EDUCATIONAL ACTIVITIES

- Theoretical Knowledge
- Practical Skills
- Press releases related to financial statement frauds
- Fraud datasets

ASSESSMENT

May Examination:

The students will develop a project applying data analytics methods using fraud datasets to assist in the external and internal audit processes.

June Examination:

The students will develop a project applying data analytics methods using fraud datasets to assist in the external and internal audit processes.

HONESTY IS THE BEST POLICY

(Ethics Committee Provisions Against Plagiarism and Copying)

We value honesty. Without it, there can be no trust or any meaningful social relations. Therefore, the School expects honesty and fairness from all of its members: professors, non-academic staff, and students.

Dishonest behaviours will be sanctioned in accordance with the [University Norms on Student Academic Discipline of August 2015](#), and include lying, cheating in exams, and plagiarism in written work. We take such violations seriously. Depending on their gravity, these offences will be dealt with by the Professor in charge of the subject, by the Dean of Students, and in very severe cases, by the Vice President for Student Affairs.

Sanctions include:

- formal warnings
- prohibition from entering University premises for a given period
- loss of admission rights to exams
- loss of scholarships
- A failing grade for the piece of work or the whole course

OFFICE HOURS

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BIBLIOGRAPHY

- [Fraud Examiners Manual \(ACFE\)](#)
- [Forensic Accounting and Fraud Examination: Knowledge, Skills, and Abilities](#)
(Richard Dull and Richard A. Riley, Jr.)
- [Forensic Accounting and Fraud Examination](#) by Kranacher, Riley and Wells
- [Accounting Information Systems, 10th edition \(Gelinas, Dull and Wheeler\)](#)
- [Benford's Law: Applications for Forensic Accounting, Auditing, and Fraud Detection](#)

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