

FIN-522	Venture	capital
FIN-522	Venture	capita

Fahlenbrach Rüdiger		
Cursus	Sem.	Type
Financial engineering minor	Н	Opt.
Financial engineering	MA1, MA3	Opt.
Management, Technology and Entrepreneurship minor	Н	Opt.
Managmt, tech et entr.	MA1, MA3	Opt.

Language of teaching	English
Credits	4
Session	Winter
Semester	Fall
Exam	During the
	semester
Workload	120h
Weeks	14
Hours	3 weekly
Courses	3 weekly
Number of positions	

Remark

only for MA3

Summary

The course applies finance tools and concepts to the world of venture capital and financing of projects in high-growth industries. Students are introduced to all institutional aspects of the venture capital industry. Students analyze various aspects of VC finance using an investors' perspective.

Content

- 1. Introduction to venture capital
- 2. Methods for valuation of high-growth companies
- 3. Venture capital investing and option pricing analysis

Keywords

Venture capital - Private equity - Finance of innovation - Valuation - Option pricing theory

Learning Prerequisites

Required courses

Introduction to finance

Recommended courses

Investments

Learning Outcomes

By the end of the course, the student must be able to:

- Describe all the institutional aspects of the venture capital industry.
- Give an example of the asymmetric information problem that drives contracting in the venture capital industry
- Recall discounted cash-flow and comparables valuation techniques
- · Apply finance tools and concepts to the world of venture capital and financing of projects in high-growth industries.
- Use option pricing techniques to price the preferred securities issued to venture capitalists
- Describe how leveraged buyout transactions work

Transversal skills

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- Plan and carry out activities in a way which makes optimal use of available time and other resources.
- Give feedback (critique) in an appropriate fashion.
- Take feedback (critique) and respond in an appropriate manner.
- Summarize an article or a technical report.

Teaching methods

Lectures, homework, case studies, expert talks, exercises

Assessment methods

30% Homework and case studies 25% midterm exam 45% Final exam

Homework is open book. Midterm and final exam are closed-book.

Supervision

Assistants Yes

Resources

Virtual desktop infrastructure (VDI)

No

Bibliography

Venture Capital and the Finance of Innovation by Andrew Metrick and Ayako Yasuda, John Wiley and Sons.

Ressources en bibliothèque

• Venture Capital and the Finance of Innovation / Metrick

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