CS-410 Technology ventures in IC

<table>
<thead>
<tr>
<th>Cursus</th>
<th>Sem.</th>
<th>Type</th>
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<tbody>
<tr>
<td>Data Science</td>
<td>MA2, MA4</td>
<td>Opt.</td>
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<tr>
<td>Informatique</td>
<td>MA2</td>
<td>Opt.</td>
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<td>Mineur STAS Chine</td>
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<td>Opt.</td>
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<tr>
<td>SC master EPFL</td>
<td>MA2, MA4</td>
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Language: English  
Credits: 4  
Session: Summer  
Semester: Spring  
Exam: During the semester  
Workload: 120h  
Weeks: 14  
Hours: 4 weekly

Lecture: 2 weekly  
Project: 2 weekly  
Number of positions

Remarque
pas donné en 2018-19

Summary
This hands-on class gives graduate students in IC interested in startups the opportunity to learn and put in practice the fundamental skills required to assess a technology concept in the context of a business opportunity. This class is focused only on business opportunities where high-technology

Content
Working in teams, students will learn the fundamentals of:
• Opportunity assessment
• Customer development and validation
• Business model alternatives
• Intellectual Property
• Strategy and Financial planning
• Go-to-market, launch, and growth

This is a hands-on class where students start the class with their own technology venture concept (e.g. the work done as part of their PhD, or some well-formed idea, maybe with a prototype). During the class, they convert their concept into an integrated business plan.

Keywords
Entrepreneurship, startups, technology transfer, intellectual property

Learning Prerequisites
Required courses
• None – but available to MS and Ph.D. students only

Learning Outcomes
By the end of the course, the student must be able to:
• Analyze a business plan
• Create a business plan

Teaching methods
• Short ex-cathedra presentations of each topic
• Hands-on seminar with many short student presentations
• Presentations from invited guests, in particular industry executives and entrepreneurs
• Discussion and case studies

Assessment methods
• In-class participation (30%)
• In-class presentations (30%)
• Final pitch (40%)

Supervision
Office hours: Yes
Assistant: No
Forum: Yes