

Strategies of Implementation Challenge-Based Learning

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Type of Challenges

• Extracurricular and Intracurricular

Extracurricular

- Regarding duration of challenge:
 - Nano challenge : (1-3 days, 2 ECTC and ECIU certificate)
 - Mini challenge: (2-4 weeks, 3 ECTS)
 - Standard challenge: (3-6 months, 5 ECTS)
 - Strategic challenge: (more than 6 month, 30 ECTS)

Challenges at UiS

Extracurricular challenges



Challenges	Universites	Field of Studies	Challenge Provider	242 333
Nano (1-3 days)	 Twente University University of Stavanger University of Trento 	 Global and Local Studies / Sociology City and Regional Planning Literacy Studies Public Administration 	Byverksted	
Make urban area and complexes greener				
Mini (2-4 weeks)	 Twente University University of 	• Public Administration		
Intimate cityscapes	- Stavanger	 Risk Analysis and Governance City and Regional Planning Literacy Studies Business Administration Embedded Systems 	Byverksted	
Standard (3-6 months)		Civil Engineering		
Mapping the constructions' recyclable, reusable and renewable materials	 University of Stavanger University of Aveiro Twente University 	 Geoinformation Science and Earth Observation (specialisation Land Administration) Petroleum Reservoir Engineering 	Site 4016	





Nano Challenges (3 days)	No	Fields of Study	Challenge Provider	
Reducing car traffic at UiS campus	14	Team1:Data Science(master), economy(bachelor),Petroleum engineering (master),Marketing Analytics (master). Team2:Industrial management(bachelor), Change management and investment(master),Automatisering og electronic design(bachelor). Team3: Business Administration(master),Leadership/Hospitality(master), Strategic Marketing and Analytics(master). Team4: Data technolog(bachelor), Strategy & management(master),Industrial asset management(master),management(master), Law(bachelor).	Kolumbus	 B) chapper grant see or sublikel; Chapper grant see or sublikel; Chapper grant see or sublikel; D) constant have backer or sublikel; D) constant for the sublikel; D) constant for th
More sustainable data centres	13	Team1: Data Science (Master), Automatisering og electronic design(Bachelor),Energy, environment and society(master). Team2:Industrial AssetManagement(master),Business(bachelor), Building engineering(bachelor), Mechanical and Structural Engineering(PhD), Team3:Industrial management(bachelor),Risk management (PhD), Data science(master), Risk Management & Societal Safety(PhD). Team4: Reservoir engineering(master), Business development(master), Energy, Environment and Society(master)	Lyse	
Artificial intelligence for drones	3	Risk management (Bachelor), Data technology (Master), Risk Analysis and Governance (Master), Mathematic og physics (Bachelor)	KVS Technologies	

Nano Challenges (2 days)	No	Fields of Study	Challenge Provider
How to build a democratic organisation from scratch		Cognitive Psychology(bachelor) Uni Trento, Education(master), University of Tampere, literacy studies(master) UiS, Philosophy(bachelor) UiS	Byverksted



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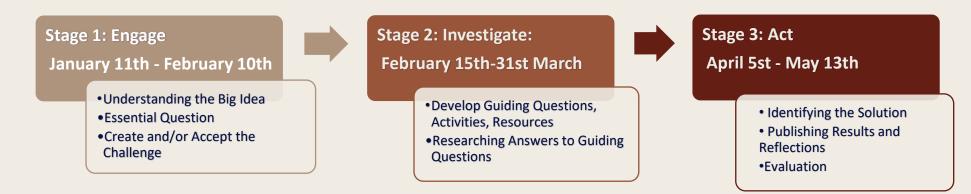
<u>https://www.soi.unitn.it/activities/challenges/</u>

Two different strategies of CBL implementation

- Information Management and Digitalization course, 37 master students, Spring 22
- Corporate social responsibility in service organizations, 52 Bachelor student, Fall 2022

Intracurricular challenges

Challenge based-learning Framework: Schedule for Information Management and Digitalization, 2022



Students' Presentations:

Thursday 27th of January: Working process stage1 Presentation Thursday 10th of February: Final stage1 Presentation and submission stage1 Thursday 3th of March: Check working process stage2 presentation Thursday 31sth of March: Final stage2 presentation and submission stage2 Thursday 1st of May: Check working process stage3 presentation Wednesday 11th May submission final report

Lectures:

Tuesday 11th January Teamformation and presenting the whole semster plan Tuesday13th January Introduction CBL and Plan Stage 1 Tuesday 8th February Stage 2 lectutring 15th March lecturing methods

Assistants control check the process: Every two weeks from 11th January to 10th May.

In case Students have Critical questions, They can e-mail: Masoumeh.shahverdi@uis.no Or can make an online or physical appintment with Sanaz Masoumeh shahverdi.

CBL Team Members:

Expert: Bjarte Ravndal CBL expert: Sanaz Masoumeh Shahverdi Teamcher Assistant: Timothy Marshal Challenge coordinator: Tanzina, Serinha and ... Challenge provider: Bouvet and EFAB

	Date	Topics	Responsibility
	11.01	Introduction	Bjarte and Sanaz
	13.01	Introduction CBL and CBL Stage 1 Engage	Sanaz
	18.01	Foundations to IS Strategy and Strategizing	Bjarte
	20.01	Work on CBL project	Students, AT & Sanaz
Stage 1	<mark>25.01</mark>	Bouvet and Efab – Digital Challenges	Bjarte, Bouvet, Efab
	<mark>27.01</mark>	Working process stage 1 presentation	Students, Sanaz
	01.02	Digital Strategy and Organizational Transformation	Bjarte
	03.02	Work on CBL project	Students, AT & Sanaz
	08.02	Work on CBL project	Students, AT & Sanaz
	<mark>10.02</mark>	Final stage1 presentation and submission	Students, Sanaz
	15.02	CBL Stage 2 Investigate	Sanaz
	17.02	Work on CBL project	Students, AT & Sanaz
	22.02	Work on CBL project	Students, AT & Sanaz
	24.02	Work on CBL project	Students, AT & Sanaz
	01.03	Work on CBL project	Students, AT & Sanaz
	<mark>03.03</mark>	Working process stage 2 presentation	Students, Sanaz
Stage 2	08.03	Work on CBL project	Students, AT & Sanaz
Stage 2	10.03	Work on CBL project	Students, AT & Sanaz
	15.03	Work on CBL project	Students, AT & Sanaz
	17.03	Work on CBL project	Students, AT & Sanaz
	22.03	Work on CBL project	Students, AT & Sanaz
	24.03	Work on CBL project	Students, AT & Sanaz
	<u>29.03</u>	Work on CBL project	Students, AT & Sanaz
	<mark>31.03</mark>	Final stage 2 presentation and submission	<mark>Students, Sanaz</mark>
	05.04	CBL Stage 3 Act	Sanaz
	07.04	Work on CBL project	Students, AT & Sanaz
	19.04	Work on CBL project	Students, AT & Sanaz
Stage 2	21.04	Work on CBL project	Students, AT & Sanaz
Stage 3	26.04	Work on CBL project	Students, AT & Sanaz
	<mark>28.04</mark>	Working process stage 3 presentation	Students, Sanaz
	06.05	Individual Take Home Exam – Due Date 13.05	

Spring 2022 Course titile: Information Management and Digitalization course 37 master students, 9 Teams

	Challenge Provider	Challenges
1	Aarbakke Group	An efficient implementation industry 4.0 principles in Aarbakke AS' manufacturing process
2	Efab AS	Increase the awareness of the importance of digitalization
3	Stavanger Kommune	Increase collaboration's in mutually-beneficial learning and sharing of best practices
5	Соор	reduce food waste using digitalization
6	IVAR IKS	Manage and minimise food wastage efficiently with digital tools in IVAR
7	Bouvet	Maintain employees job affiliation in the home office
8	TBC - A company in the oil industry via Bouvet	Implementation of block chain in the oil and gas industry
9	UiS - Digitalisation strategy	Develop a strategy and use cases regarding the use of data that is generated whilst using digital systems

Corporate social responsibility in service organizations, 2022

Stage 1: Engage

September 29th, October 13th

- •Understanding the Big Idea
- •Essential Question
- •Create and/or Accept the Challenge

October 18th, November 1st

Stage 2: Investigate:

Develop Guiding Questions, Activities, Resources
Researching Answers to Guiding Questions Stage 3: Act November 3th,November15th • Identifying the Solution • Publishing Results and Reflections • Evaluation

Date	Classes	Lecturer
23. August	Lecture 1. Welcome to BHO308 – Practical Information	Lukasz Derdowski
25. August	Lecture 2. Irresponsible Corporate Behaviors	Lukasz Derdowski
30. August	Lecture 3. General background to CSR: 'What is it all about?' PAR	Lukasz Derdowski
1. September	Lecture 4. General background to CSR: 'What is it all about?' PAR	Lukasz Derdowski
6. September	Lecture 5. Influential Theories in CSR	Lukasz Derdowski
8. September	Discussion Session 1. ISO 26000	Lukasz Derdowski
13. September	Lecture 6. CSR in Action:	Lukasz Derdowski
15. September	Discussion Session 2. UN Global Compact Performance Model	Lukasz Derdowski
20. September	Guest Lecture: CSR & Green Demarketing	Shiva Ghorban Nejad
22. September	Guest Discussion Session 3: Cases – Patagonia & REI	Shiva Ghorban Nejad
27. September	Lecture 8. CSR and Innovation	Lukasz Derdowski
29. September	Introduction to Stage 1: Engage	Sanaz Masoumeh Shahverdi
4. October	Groupwork Project: Facilitated Group Work	Sanaz, Masoumeh Shahverdi, Assistants & Students
6. October	Lecture 9. CSR and Psychosocial Risk Management	Lukasz Derdowski
11. October	Lecture 10. CSR in the Age of Artificial Intelligence (AI)	Lukasz Derdowski
13. October	Groupwork Project: Short (5 min) Students' Presentations	Students, Sanaz
18. October	Introduction to Stage 2: Investigate	Sanaz Masoumeh Shahverdi
20. October	Groupwork Project: Facilitated Group Work	Sanaz Masoumeh Shahverdi, Assistants & Students
25. October	Lecture 11. CSR and Leadership	Lukasz Derdowski
27. October	Lecture 12. CSR in the Norwegian Context	Lukasz Derdowski
1. November	Groupwork Project: <u>Short (5 min) Students' Presentations</u>	Students
3. November	Introduction to Stage 3: Act	Sanaz Masoumeh Shahverdi
8. November	Groupwork Project: Facilitated Group Work	Sanaz Masoumeh Shahverdi, Assistants & Students
10. November	Lecture 13. Critical Perspective on CSR	Lukasz Derdowski
15. November	Groupwork Project: Short (5 min) Students' Presentations	Students, Sanaz
15. November	Summary of the Course (Questions, comments, and discussion)	Lukasz Derdowski

Fall 2022

Course titled: Corporate social responsibility in service organizations 52 Bachelor-level students, 13 Teams

	Challenge Name	Challenge Provider
1	Scandic Stavanger Park	Reduce food waste at the hotel
2	Studio Alf hairdresser	Reduce health strain among employees
3	Avarn Security (Airport)	Enhance work motivation amongst employees at AS
5	Slingrebekken barnehage in Saetre Asker	Reduce food waste at kindergarten
6	UiS	Reduce plastic use at UiS
7	Carnival cruises	Reduce the environmental impact generated by Carnival in Barcelona port
8	Ydalie	Reduce the use of towels and bed linen in hotel rooms
9	Vinmonopolet	Reduce alcohol consumption
10	Stavanger Port authority	Reduce impact of cruise ships on local community
11	McDonald's	Reducing food waste and single-use plastic at McDonald's
12	UiS	Increase a healthier lifestyle options on campus
13	SuS	Minimise textile wastage and recycling

- Lukasz Andrzej Derdowski" Social science faculty, Norwegian hotel college, Course:Corporate social responsibility in service organizations
 - "In my view, potential benefits deriving from implementation of CBL accrue to students, teachers, and the University as a whole. Specifically, students gain a set of transferable skills that could be applied to challenges that go far beyond the classroom. Teachers are given a chance to expand their battery of pedagogical skills. And the Uni can, through international collaboration, establish new professional links and recognition. For a long time, we in academia have prioritized mainly *research* networks, but now we are given a fantastic opportunity to join a *teaching/pedagogical* network as well (both within the Uni, and across the national and international institutions)."
- Tatiana Aleksandrovna Iakovleva" UiS Business School, Course: Knowledge-based entrepreneurship
 - "I can see that students have great value by pursuing the CBL methods, like defining the problem, collecting information and coming up with solution. it is very helpful for them to have a stage-based "recipe" for how to work with such challenges. CBL is based on a general method of working with challenges, and it can be "backed in" in many courses where students have to interact with the real world."



