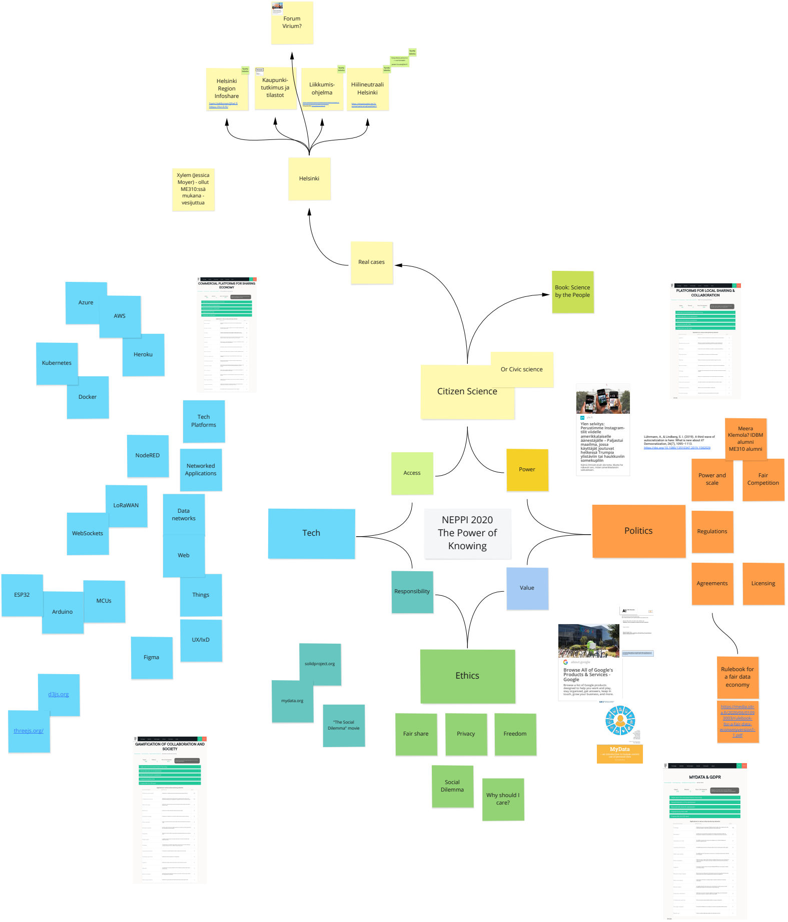


NEPPI 2020 The Power of Knowing
Tech
Politics
Ethics
Citizen Science
Or Civic science
Access
Power
Responsibility
Value
Real cases
Book: Science by the People
Helsinki
Forum Virium?
Helsinki Region Infoshare
Kaupunki-tutkimus ja tilastot
Liikkumis-ohjelma
Hiilineutraali Helsinki
Xylem (Jessica Moyer) - ollut ME310:ssä mukana - vesijuttua
Azure
AWS
Heroku
Kubernetes
Docker
Tech Platforms
NodeRED
Networked Applications
LoRaWAN
Data networks
WebSockets
Web
ESP32
Arduino
MCUs
Things
UX/IxD
Figma
d3js.org
threejs.org/
solidproject.org
mydata.org
"The Social Dilemma" movie
COMMERCIAL PLATFORMS FOR SHARING ECONOMY
PLATFORMS FOR LOCAL SHARING & COLLABORATION
GAMIFICATION OF COLLABORATION AND SOCIETY
MYDATA & GDPR
Meera Klemola? IDBM alumni ME310 alumni
Power and scale
Fair Competition
Regulations
Agreements
Licensing
Rulebook for a fair data economy
https://media.sitra.fi/2020/06/01093003/rulebook-for-a-fair-data-economyversion1-1.pdf
Lührmann, A., & Lindberg, S. I. (2019). A third wave of autocratization is here: What is new about it? Democratization, 26(7), 1095–1113. https://doi.org/10.1080/13510347.2019.1582029
Ylen selvitys: Perustimme Instagram-tilit viidelle amerikkalaiselle äänestäjälle – Paljastui maailma, jossa käyttäjät joutuvat hetkessä Trumpia ylistäviin tai haukkuviin somekupliin
Browse All of Google's Products & Services - Google
Browse a list of Google products designed to help you work and play, stay organized, get answers, keep in touch, grow your business, and more.
MyData
Fair share
Privacy
Freedom
Social Dilemma
Why should I care?

NOT STEPS! - activities

Concept Design

Exploration - diversification

Engaging others - networking

Problematizing

Sketching

Deliver

Simplifying - conceptualizing

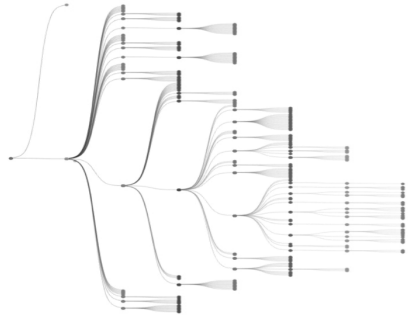
Constructing

Remain open

Experimenting

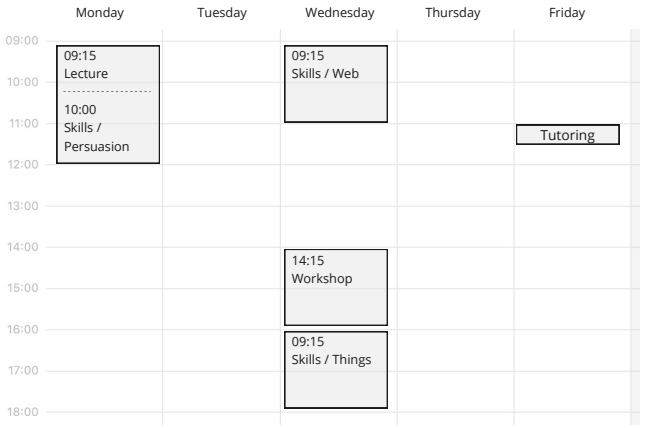
Judging - critiquing

Product Design



IDBM / NEPPI 2020 schedule

Week	Monday	Wednesday	Friday
Week 1 26.-30.10. Team to discuss: Find your interest!	09:15 - 12:00 L: Intro & teaming up (Muista DT - että vastaanlainen prosessi jo Challengessa!) 1 h Salu break 10-15 mins L: Citizen Science: Everyday People Contribute to Data/ Analyses 20-25 mins Sampsa Two tracks: measurement based and subjective - example projects break 5 mins L: Critical science and politics of participation 20-25 mins Nitin Two project examples 30 mins - discussion	10:15-12:00 Web: PWA - Figma 14:15-16:00 Co-design: World Scenario Generation - Backwards Planning  16:15-18:00 Things: The T in IoT Reading Temp with Arduino	Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision
Week 2 2.-6.11. Team to do: Contact your stakeholders!	09:15 - 12:00 L: Identifying, Involving and Inviting Stakeholders (stakeholder mapping) L: Persuasion / Reflection Lecture 15 min L: Persuasion / Reflection Lecture 15 min L: Persuasion / Reflect Lecture 15 min L: Persuasion / Reflection Lecture 15 min	Web: Displaying Data MiniProject: WeatherApp #1/2 14:15-16:00 Co-Design: Exploring how to involve everyday people in your project Things: Touching the Clouds	Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision
Week 3 9.-13.11. Team to do: Involve your stakeholders -> envision alternative ideas	09:15 - 12:00 L: Empathy - ideation / ways of focusing L: Persuasion / Reflection Lecture 15 min L: Persuasion / Reflection Lecture 15 min L: Persuasion / Reflect Lecture 15 min L: Persuasion / Reflection Lecture 15 min	Web: Fetching Data MiniProject: WeatherApp #2/2 reflect! Things: Touching the Clouds	Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision
Week 4 16.-20.11. Team to do: Define your prototype	09:15 - 12:00 Team presentations: Design Focus Here the teams are expected to address more than one idea...	Technical tutoring 14:15-16:00 Co-Design: Critical experience & critical function	Tässä on Industry projekctin launch Team supervision Team supervision Team supervision Tässä voisi olla muutama vapaa "office hours" slot
Week 5 23.-27.11. Team to do: Build your prototype	09:15 - 12:00 L: Pekka Nikander / War Stories L: Pekka Nikander / IoT & Outsourcing vs. Partnering L: Persuasion / Reflection Lecture 15 min L: Persuasion / Reflection Lecture 15 min	reflect! Technical tutoring	Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision Team supervision
Week 6	09:15 - 12:00 L: Preparing the final presentations and documents	FINAL PRESENTATIONS	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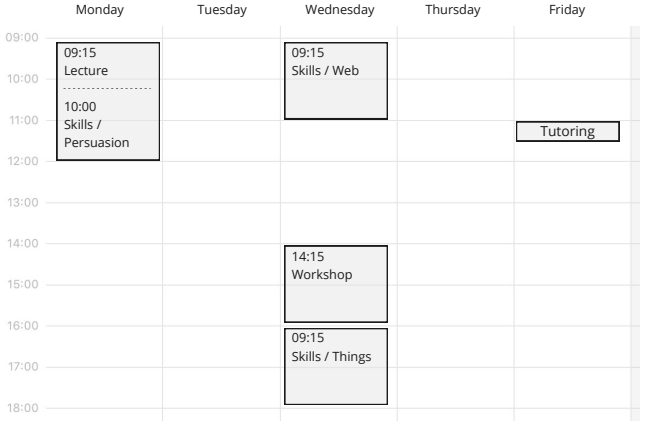
18:00
09:15
Lecture
10:00
Skills /
Persuasion
09:15
Skills / Web
Tutoring
14:15
Workshop
09:15
Skills / Things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09:15
Lecture
10:00
Skills /
Persuasion
09:15
Skills / Web
Tutoring
14:15
Workshop
09:15
Skills / Things

Evaluation Criteria

1) Individual grade (30%)

- contribution to the project
    - self-evaluation (0-5)
    - peer-evaluation (0-100%)
    - skills sessions - active participation enough (0-5)
- max. 3 missed sessions to pass (negotiable with extra tasks)

2) Group grade (70%)

- Design Focus presentation (20%)
- Final presentation (30%)
    - Concept
    - Process
    - Demo
- Transformation Opportunity Document (50%)

- You will get good karma by:
    - Displaying 'working together' attitude
    - Taking up challenges

Transformation Opportunity Document

1) Opportunity
- What is the opportunity about?
- What needs to chance - why?
- What is the situation like, if the opportunity is realised?

2) Background Research
- Broad context and trends
- Stakeholder involvement
- Relevant technologies

3) Building Blocks of Change
- What technical systems and tools are needed
- What organisations / roles are needed
- What kinds of key agreements are needed

4) Tensions
- Access: Technical capacity vs. Capability to utilise
- Power: Participatory contribution vs. Regulatory leadership
- Value: Distributed good vs. Focussed profit
- Responsibility: Sustainable development vs. Free innovation

Overall aims of NEPPI 2020

In the NEPPI course, students will learn multi-stakeholder concepting in the context of networked technology development. It combines multi-stakeholder approach with strong technological support.

The concepts that students create, will be evaluated on three grounds:
1) on the relevance and impact potential of the proposal (5-10 years)
2) on the realism, feasibility, and competitiveness of the proposal
3) on the sustainability and ethical rationale of the proposal

The course originates in the development of IoT concepts. However, currently we accept a broader definition of what the networked technology proposal may encompass, as the creation of a new physical 'Thing' may not be that wise in all cases.

Literature:
Rowland, C., Goodman, E., Charlier, M., Light, A., & Lui, A. (2015). Designing connected products: UX for the consumer Internet of things (First edition). Sebastopol: O'Reilly.

Kimura, A. H., & Kinchy, A. J. (2019). Science by the people: Participation, power, and the politics of environmental knowledge. Rutgers University Press.