

Wearable technology
and
Functional wear
Course Programm



Week 37 Theory and introductions

Monday 13.9. at 9.15 – 12 zoom

- 9.15-10 course program and assignments
- 10-11 teacher introductions ; Emmi Pouta, Antti Salovaara, Ilona Hyötyläinen
- 11-11.30 students introductions
- 11.30-12 examples from previous courses

Zoom link for course:

<https://aalto.zoom.us/j/64397613529>

Tuesday 14.9 at 9.15 – 12.45 Introduction lectures at zoom

- Lectures: 9.15 Ilona Hyötyläinen 10.00 Elina Ilen, 10.45 Emmi, 12-12.45 Antti Salovaara

Tuesday 14.9 at 14.15-17 at campus

- Demos by Emmi & Valtteri at Mechatronic lab and Sewing studio, Emmi&Sofia, Valtteri, Antti

Thursday 16.9 at 9.15 – 12 at zoom

- 9.15-12 Students first presentations for forming groups

Thursday 16.9 at 13.30-17 at campus

- Prototyping simple circuit to fabric at Megatronic lab and Sewing studio by Emmi & Laminations at Sewing studio, by Ilona
- Wearable teams are formed

Week 37 Independent work

- Prepare Idea presentation for Thursday 14.9, details at assignments

Study independently video lectures:

- User research, by Natalia Särmäkari
- Technical drawing and presentation in Functional clothing , Essi Karell & Ilona Hyötyläinen
- Start working with team and concept
- Remember to fill Working diary

Week 38 Coding and prototyping

Monday 20.9 At 13.15- 17 at zoom

- Programming by Antti

Zoom link for course:

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Tuesday 21.9 at 9.15-17 lectures at campus **M234, Otakaari**

- At 9.15-10.15 Hydrophobic Surfaces in water-repellent and breathable clothing, Nina Forsmann, Chem
- At 10.30-12 lecture at campus: Footwear technology, Hanna Raatikka
- 13.15-14.30 Functional materials lecture by Ilona
- 15-17 first tutoring sessions, choosing topic, Emmi & Ilona

Thursday 23.9 at **9.00-12** at zoom

- First concept presentations by student groups / students, discussion and feedback

Thursday 23.9 at 13.30-17 at campus

- Prototyping simple switch / sensor from hand movement at Megatronic lab and Sewing, studio by Emmi
- Working in separate rooms/studios in smaller groups
- 13-15 Antti tutoring

Week 38 independent work

- Prepare first ideas for concept design for Thur 23.9, do not need to be super detailed yet
- Make list for needed electronic components by Mon 27.9
- Remember to fill Working diary

Week 39 Visiting lectures and concept presentations

Monday 27.9 At 13.15- 17 at zoom

- Programming by Antti

Zoom link for course:
<https://aalto.zoom.us/j/64397613529>

Tuesday 28.9 visiting lectures at zoom

- at 9.15-10 Maria Smolander, VTT,
- at 10-11 Matilda Tuure, Odlo
- at 11-12 Valtteri Wikström
- at 13-14 Jaana Vapaavuori,
- at 14-15 Sandra Wirtanen,
- at 15-16 Anni Lehtosalo

Thursday 30.9, at 10.15-12 at campus Q201

- Functional teams tutoring sessions at campus, by Ilona,

Thursday 30.9 At 13.15- 17 at campus

- Wearable teams tutoring sessions at campus, By Emmi & Ilona & student assistant
- Prototyping begins at studios

Week 39 independent work

- Finalize ideas for concept design and finalize sketching
- Prototyping begins
- Finalize ideas about the materials/fabrics

- Remember to fill Working diary

Week 40 tutoring & prototyping begins

Monday 4.10 at 13.15-17 at zoom

- Programming by Antti

Tuesday 5.10 at campus L208

- At 9.15-17 Clo3D program presentation & testing & basic pattern making,
- at campus, Jane Palmu

Thursday 7.10 9.15-17 at campus

- Prototyping at studios

Week 40 independent work

- Prototyping continues
- Remember to fill Working diary

Week 41 tutoring & prototyping

Tuesday 12.10 at 9.15-17 at campus

- Prototyping at studios, tutors available: Emmi at 9.15-12, Ilona at 13.15-16, student assistant

Thursday 14.10 9.15-17 at campus

- Prototyping at studios, tutors available: Emmi at 9.15-12, Ilona at 13.15-16, Antti at 13-15, student assistant,

Week 40 independent work

- Prototyping continues
- Remember to fill Working diary

Week 42 Finalizing concepts and prototypes

Tuesday 19.10 at 9.15-17 at campus

- Prototyping at studios, tutors available: Ilona at 9.15-12,
- 9.15-10 Presentation instructions and examples lecture, Ilona

Thursday 21.10 9.15-17 at campus

- Prototyping at studios, tutors available: Emmi at 9.15-12, Antti at 13-15,

Week 41-42 independent work

- Finalize prototype
- Make final presentation
- Write few sentences for exhibition about your concept

Week 42 Concept presentations

Thursday 28.10

- At 9.15 final presentations at campus
- At 13.15-17 building exhibitions